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globalREMOTE

COMPANY PROFILE

GLOBAL REMOTE GROUP

Founded in 2007, Global Remote services a growing global client base, delivering a comprehensive range of services, including turnkey solutions, to the energy, civil, marine and geotechnical sectors.

Global Remote Group is a specialist provider of turnkey solutions, operating across the energy, civil, marine, and geotechnical sectors. We offer a comprehensive Inspection, Maintenance and Repair (IMR) programme, utilizing industry best practice systems that enable efficient, cost effective and integrated solutions.

We offer value and flexibility to meet all our clients' demands, centered around the cost effective and efficient management of our multi-disciplined and internationally experienced personnel across the globe.

Our global service capability stems from our expanding geographical presence, servicing the Americas, the CIS,India, and the Middle East, via our regional and partner offices in Bahrain, India, Qatar, Turkmenistan, UAE and USA.

- **Bahrain**
- **India**
- **Qatar**
- **Turkmenistan**
- **United Arab Emirates**
- **United States of America**

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OUR MISSION

Global Remote is a company founded on the core principles of integrity, reliability, safety and quality. Global Remote endeavors to provide innovative, efficient and cost-effective solutions to all our clients, regardless of project complexity, environment or location. ***We value our reputation and strive to maintain it.***

OUR OBJECTIVES

- Provide cost effective, best practice, technically suitable, quality driven and timely solutions to every client
- Promote and preserve the Global Remote brand and identity, as a professional and world-class organization
- Deliver on our core values of integrity, reliability, safety and quality, regardless of project complexity, environment, or location
- Aspire to excellence in health, safety and environment performance by creating and maintaining a culture of zero harm
- Promote and enforce all relevant Quality, Health, Safety, and Environment standards, enhancing awareness among all employees, establishing a safe working environment and quality driven deliverables for all projects, regardless of project complexity. Recognising that the objective is not only to satisfy, but also to exceed the expectations of our clients and our employees
- Promote incremental growth of the group through focused research, knowledge sharing, developing intellectual property, developing new markets, adopting technological innovations, diversifying services, and strengthening client and partner networks
- Ensure continual development of all staff and management by ongoing training and education, and knowledge sharing and cooperation, thus ensuring a truly professional and certified team

Certified Professionals

Quality Management

Technological Innovation

Group Companies

Jacob INSPECTION SERVICES

Inside Exploration Technologies
a group company of globalREMOTE

PPEglobal

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HSE POLICY

At Global Remote, health, safety and environmental aspects have a very high priority in all services provided.

Global Remote always amplifies the key safety sentiment that, all accidents/incidents and damage to health can be avoided, and that any environmental impact as a consequence of projects, project processes and/or management processes, can be minimised.

Global Remote believes that advocating sound HSE policies will result in improving the efficiency of the Company's operations, the welfare of employees and the expectations of the individual customer and interested parties.

- ✓ We are committed to providing superior standards of HSE in the workplace by promoting awareness throughout the company and ensuring that standard operating procedures are in place to protect all employees, third parties and the environment.
- ✓ Prior to engaging in a project, the work activities will be evaluated in order to identify potential hazards and to assess, record and control any subsequent risk to a defined level, following the zero-accident policy of Global Remote.
- ✓ We believe that all incidents can be avoided. The HSE manager has the overall responsibility for health and safety aspects, however each employee, is responsible for his/her own health and safety as well as for the health and safety conditions of his/her colleagues.
- ✓ The company has in place a Stop Work Authority (SWA) program, designed to provide anyone associated with the company, from employees to sub-contractors and visitors, with the ability to stop any operation that appears to present a potential safety risk. The company management believes that stopping an operation is better than risking a single injury.
- ✓ The consideration of environmental aspects is an integrated part of all projects. Our projects and services are designed to either minimise or negate environmental impact and to be efficient in conserving energy and natural resources.
- ✓ We will ensure that all equipment used conforms to internationally accepted standards and code of practice and is maintained to appropriate professional levels.
- ✓ In order to monitor HSE performance the company will conduct periodic audits and review of all facets of its operation. The results and findings will be used to improve all elements of HSE, and employee involvement will be encouraged to assist with the ongoing improvement of safety performance.
- ✓ We will work together with our customers to improve HSE standards and will have an open minded approach to all HSE questions from all customers and employees.
- ✓ We will ensure that all relevant legislation, legal and other requirements are adhered to, including all statutory and local regulations in force at the individual worksites.
- ✓ The HSE policy is supported by the Global Remote management system complying with ISO 45001:2018 on Health and Safety Management.
- ✓ We have implemented a proactive HSE Management system in order to identify OH&S risks and opportunities and set and achieve the OH&S objectives in alignment with the organisations' strategic direction.
- ✓ We will continually improve our performance by the training and education of our staff to the highest standards of OH&S management system.

Jaison Pullikottil
Managing Director

GR-POL-HSE-001 rev 02

01-Sep-19

QUALITY POLICY

At Global Remote our policy is to deliver quality outcomes in all the services we provide to the highest standard in our industry.

Our key objectives are "Creating value for our customers".

Global Remote delivers quality outcomes for our customers by developing an exclusive service based on their individual needs and seeks to go beyond their expectations. We are committed to achieving business excellence by adhering to the following:

- ✓ We will ensure that the customer experiences an atmosphere of cooperation, trust and openness, so that all requirements and expectations are met.
- ✓ Prior to engaging in a project, the work activities will be evaluated in order to identify potential hazards and to assess, record, and control any subsequent risk to a defined level, following the zero-accident policy of Global Remote.
- ✓ We are committed to promoting the awareness and understanding of the Quality Management System throughout the Organisation. We have implemented a pro-active Quality Management System for setting and achieving the quality objectives in alignment with the strategic direction and context of the organisation.
- ✓ We will ensure sustainable quality performance through implementation of an effective Quality Management System, validating its effectiveness through internal and external audit processes.
- ✓ We will encourage our employees to act in accordance with our values. We value their knowledge and experience, recognise their contribution, and provide an environment in which they can achieve their full potential.
- ✓ We will ensure that all relevant legislation and compliance requirements are adhered to, including all statutory and local regulations are in force at individual worksites.
- ✓ The Quality Management System is the shared responsibility of all employees within the group. Management shall provide the necessary resources, systems, training, and leadership to achieve and maintain quality in every activity throughout the organisation.
- ✓ We will continually improve our performance by training and educating of our staff to the highest standards and delivering services that comply with all legal and regulatory requirements.
- ✓ The Quality Policy is supported by the Global Remote Quality Management System complying with ISO 9001 on Quality Management.

Jaison Pullikottil
Managing Director

GR-POL-QAL-001 rev02

01-Jan-19

CODE OF CONDUCT POLICY

The Code of Conduct Policy establishes the guiding principles for appropriate workplace behaviour and expectations to be observed regarding our ethical standards for business. It forms an integral part of Global Remote's Integrity Management System. Global Remote will work against corruption and discrimination in all its forms, and we are committed to the internationally recognised business integrity principles.

- ✓ We will respect the basic principles of Global Remote's core values.
- ✓ We will not seek personal gain through abuse of our positions in Global Remote.
- ✓ We will pursue all our business activities and interactions with integrity.
- ✓ We will respect the rules of law governing our business.
- ✓ Will respect human rights and the political, cultural and religious customs of the people we work with and within the countries in which we work.
- ✓ We will never participate in any discrimination of persons in our sphere of business, be that company employees, client, subcontractor, partner employees or any members of the public with which we deal.
- ✓ We will never practice any activities of forced labour, or child labour.
- ✓ We will neither participate in nor encourage corrupt and fraudulent practices, including extortion and bribery. We will strictly observe the internationally recognised business integrity management principles, adhering to the highest standards of ethics during the selection and execution of contracts.
- ✓ We strongly discourage and refrain from the use of facilitation payments.
- ✓ We will only give and accept gifts on appropriate social occasions in acceptable moderation.
- ✓ We avoid political contributions.
- ✓ We will never use gifts or gratifications during the process of a competitive bid or tender exercise in order to solicit business.
- ✓ We hold no secret or unrecorded funds of money or assets.
- ✓ Fees paid by us to agents and associated consultants shall be commensurate with the services provided. Our Code of Conduct shall be known and acknowledged by our agents and associated consultants to the extent that they are acting on our behalf.
- ✓ Our Code of Conduct shall also apply to our participation in joint operations and we seek to ensure that our joint venture partners adopt commitments similar to our own in connection with joint projects.
- ✓ All employees are under an obligation and are encouraged to raise any concern, grievance or compliant, or to seek clarification of doubts, with management, in order to establish an ethical mode of business behaviour for all employees.

Jaison Pullikottil
Managing Director

GR-POL-COC-001 rev 01

01-Dec-18

ACCREDITATIONS AND MEMBERSHIPS

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QUALITY AND SAFETY

At the Global Remote Group, we believe that maintaining the highest standards of quality and safety is what drives our success. We aspire to excellence in health, safety and environment (HSE) performance by creating and maintaining a culture of zero harm. The objective of our Quality and HSE Policy is not only to satisfy, but also to exceed the expectations of our clients and our employees by providing an exceptionally safe and quality driven service.

Global Remote implements an integrated Quality Management System (QMS), which addresses the quality, environment and health and safety aspects of our service provision. By implementing this system across our entire portfolio we ensure that all related issues are addressed and safely managed, and can assure our customers that all Company operations and services are carried out to the required quality and safety standards.

Additionally, the Company's integrated approach to health, safety and environment systems, shares common management principles with the Company's Quality Management System (QMS). Our Health, Safety and Environmental Management System (SMS) is certified and operating to the requirements of ISO 9001 and OSHAS 18001, and additionally remains compliant with all relevant national and international standards and legislation. This ensures the effective identification, management, and reduction of all potential hazards and associated risks in all Global Remote operations, and guarantees the safety of our personnel, third parties and the environment.

The Company's overall goal is to ensure a sound SMS, with the aim to ensure zero harm (i.e. no accidents, no waste, no defects). All our operations and materials are closely monitored on a daily basis according to stringent management controls, detailed operational procedures, and contingency plans. Built in procedural controls, third-party assessment and staff training and development programmes further ensure that all SMS and QMS objectives are effectively managed and improvement is maintained.

Global Remote successfully delivers a range of integrated solutions to the most demanding operations worldwide, ensuring the highest standards of safety and quality.

SERVICE PORTFOLIO

The Global Remote Group delivers a comprehensive range of services to the energy, civil, marine and geotechnical sectors.

- Industrial Rope Access
- Heat Treatment
- Inspection and Surveys
- Asset Integrity Management
- Storage Tank Services
- Human Resource
- Training

SERVICES - INDUSTRIAL ROPE ACCESS

The Global Remote group delivers a comprehensive portfolio of safe and cost-effective industrial rope access services to the energy, civil, marine and geotechnical sectors. We strive to deliver rope access solutions that are non-intrusive, reduce or completely eliminate facility downtime, and allow for concurrent works and third-party access. Once establishing safe access to areas previously considered inaccessible or costly with traditional systems, multi-skilled Global Remote technicians can efficiently undertake any number of required operations including our full complement of inspection, maintenance, and repair (IMR) programme services.

Industrial Rope Access and its Benefits

Industrial rope access techniques provide a cost-effective alternative to traditional access methods, such as scaffolding or mobile elevated working platforms. Using advanced work-positioning systems, industrial rope access is a proven method of achieving a safe work position at height or in areas of difficult access. Global Remote employs the Industrial Rope Access Trade Association (IRATA) rope systems in all our ISO regulated rope access operations. The IRATA systems have an exemplary safety standard globally, based on a commitment to thorough training, stringent supervision, exacting equipment standards and diligent operating procedures. For more information see: www.irata.org. As an active member of IRATA, Global Remote upholds the exacting quality and safety standards demanded by this peak international association, ensuring our services to all our clients are industry best practice.

Unparalleled Safety

IRATA's exemplary safety record, unparalleled in the industry, derives from rigorous adherence to the following four safety characteristics:

Training: All technicians undergo a thorough training regime and are then examined by an independent IRATA assessor. The tiered level of experience and capability: Level I, II and III thus creates a platform for management and control. All technicians are trained in self evacuation and work mate emergency rescue techniques

Supervision: All projects are supervised by an experienced Level III safety supervisor, who is trained and experienced in complex rescue methods and site safety management.

Equipment: Emphasis on the selection of specialist safety equipment, its conformance, and thorough inspection, is an integral part of industrial rope access under the IRATA scheme.

Working Methods: A comprehensive set of guidelines and procedures have been developed for all aspects of rope access operations.

Key Benefits

The key benefits and success of the IRATA system stem from five important features:

Cost Effective: Minimal personnel and equipment; Rope access technicians both provide access and undertake the required work; rapid completion; reduced downtime

Safe: Impeccable safety record worldwide

Versatile: Custom solutions; variety of applications; access problems solved quickly; difficult structures accessed easily.

Efficient: Light weight portable equipment; rapid installation and removal of systems; minimal personnel.

Minimal Disruption: Concurrent works, third parties and pedestrian traffic is not unduly affected

Efficient: Light weight portable equipment; rapid installation and removal of systems; minimal personnel.

SERVICES - INDUSTRIAL ROPE ACCESS

Oil and Gas

Global Remote services a growing global client base in the oil and gas upstream and downstream sectors. Avoiding operational downtime, in both the onshore and offshore environments continues to be of critical importance in the oil and gas sector, irrespective of the upstream or downstream location. With this in mind, Global Remote has tailored its range of industrial rope access services to meet with clients' ongoing demand for excellence in safety, quality, and productivity. Establishing safe and inexpensive access to areas previously considered inaccessible or costly with traditional systems, multi-skilled Global Remote technicians can effectively carry out any number of required operations. Our capabilities and experience include:

Inspection and Survey

- Underwater inspections in lieu of dry docking (UWILD)
- NDT inspections (UT, MT, PT, ECI, TOFD, ACFM, LRUT, GUL)
- Derrick inspections
- Dropped object surveys (DROPS
- Restricted access and confined space entry
- Lifting gears surveys and inspections
- Vessel condition and class surveys (ABS & BV)
- Shutdown and turnaround inspection services
- Remote imaging (CCTV)
- Difficult access plant and piping inspections
- Restricted access and confined space entry
- Shipyard and offloading facilities
- Flare tip and flare line inspections
- Stack and chimney inspections

Maintenance and Repairs

- Derrick maintenance, repair, and assembly
- Flare tip to splash zone maintenance and repair
- Heli deck remedial repairs
- Cathodic protection maintenance and repair
- Steel renewals and bolt tensioning
- Blasting
- Marine standard coating and sealant application
- Fabrication works
- Insulation works
- Electrical installations
- Mechanical and engineering support
- Demolishing and decommissioning
- Piping composite repair systems

SERVICES - INDUSTRIAL ROPE ACCESS

Civil

Global Remote's experience across the spectrum of civil infrastructure is broad ranging, from multi-storey buildings through to bridges and power stations. Global Remote's expertise in rope access and combination access methods allows the delivery of a range of turnkey and site-specific solutions. Global Remote's rope access solutions are typically non-intrusive, allowing full inspection, maintenance, and repair (IMR) programmes to run concurrently, ensuring that operational downtime in all environments is minimised or avoided completely, and resulting in minimal related interference to the structure, operations, occupants, and public. Global Remote's multi-skilled technicians can effectively carry out any number of required operations to an extensive range of civil infrastructure. Our IMR capabilities and experience include:

Inspection and Survey

- General visual inspection
- Dropped Object Surveys (DROPS)
- Paint inspection
- Penstock pipe inspections
- Theme park ride inspections
- Lifting gears surveys and inspections
- NDT inspections (UT, MT, PT, ECI, UPV)
- Mechanical and acoustic testing
- Half-cell testing
- Carbonation testing
- Cover meter testing
- Foundation settlement testing
- Core sampling

Maintenance and Repair

- Complete facade repair
- Sealant applications
- Blasting and Painting
- Bolt Tensioning
- Substrate repairs and reinforcing
- Electrical fitting and wiring
- AWL and lighting protection
- Mechanical and engineering support
- Industrial cleaning
- HVAC ducting

Construction and Installation

- Structural component fabrication and installation
- Technical glazing installations
- Facade AFP installation
- Facade retrofits
- Electrical fittings and wiring
- Integrated lighting installations
- Mechanical and engineering support
- Mega format multimedia installations
- Telecommunications towers and systems installs
- Height safety systems design and install
- Demolition and decommissioning

SERVICES - INDUSTRIAL ROPE ACCESS

Wind

Global Remote's expertise in the application of industrial rope access systems to wind industry infrastructure allows the delivery of a range of wind turbine services. Avoiding operational downtime, continues to be of critical importance in the wind sector. With this in mind, Global Remote has tailored its range of industrial rope access services to meet with a client's ongoing demand for excellence in safety, quality, and productivity. Global Remote's access solutions ensure that operational downtime in this demanding environment is minimised or avoided completely. Our services are typically non-intrusive, allowing inspection, maintenance, and repair programs (IMR) to be coordinated concurrently, resulting in minimal related interference to the structure and operations. Establishing safe and inexpensive access to areas previously considered inaccessible or costly with traditional systems, multi-skilled Global Remote technicians can effectively carry out any number of required operations.

Blade and Tower Services

- Construction assembly support
- Inspection and installation of lightning protection systems
- Blade protection and aerodynamic systems (leading edge tape, stall strips, vortex generators etc.)
- Internal and external inspection and cleaning
- Laminate and coating repair
- Torque testing and replacement of landing bolts
- Installation, maintenance and inspection of fall arrest systems

SERVICES - INDUSTRIAL ROPE ACCESS

Marine

Global Remote services a growing global client base in the marine sector. Avoiding operational downtime continues to be of critical importance in the marine sector. With this in mind, Global Remote has tailored its range of industrial rope access services to meet with a client's ongoing demand for excellence in safety, quality, and productivity. Our capabilities and experience include:

Inspection and Survey

- Vessel condition and class survey (ABS and BV)
- Shipyard and offloading facilities inspection
- Restricted access and confined space

Maintenance and Repairs

- Blasting and painting
- Remedial steel fabrications and repairs
- Shipyard and offloading facilities maintenance
- Mechanical and engineering support
- Electrical installations
- Marine standard coatings and sealant applications

SERVICES - INDUSTRIAL ROPE ACCESS

Geotechnical

Global Remote provides turnkey geotechnical solutions to steep slopes and rock faces. Coupled with our expertise in industrial rope access services, Global Remote can deliver a range of proprietary and purpose built site-specific solutions. Areas where rope services can be utilised in the field of geotechnical remediation include:

- Rail and road systems
- Viaducts and dam systems
- Hydroelectric projects
- Open cut and underground mines
- Exposed, friable or unstable face

Geotechnical Stabilisation

The stabilisation and containment of steep slopes, loose and potentially hazardous rock and earth falls, continues to be an important mitigation strategy for a developing project or existing facility. These hazards often present as significant dangers to project, sub-contracting personnel and equipment, public infrastructure and facilities and environmental systems, and require sustainable and often long-term solutions. Global Remote offers a comprehensive and environmentally sensitive range of passive and active stabilisation solutions, utilising materials from the world's leading manufacturers. Our stabilisation services include:

Rockfall Defenses/ Containment Barriers

Rock bolting, rock scaling, rock re-profiling and blasting, rockfall netting, high-energy barriers, and shotcrete applications

Erosion Control

Geogrids and meshes, shotcrete, biotextile and geotextile applications, and soil pinning

Vegetation Management

Vegetation sustainability assessment, selective tree felling and scrub clearance, scrub replanting, and vegetation seeding

Terrain Risk Management

The Global Remote terrain risk management services include:

- Terrain assessments and risk management consultation in the tendering stages
- Development of project specific terrain safe work practices for client and sub-contractor field operatives

SERVICES – HEAT TREATMENT

There is often a mandatory requirement for heat treatment due to compliance with welding codes and specifications on certain materials and requirements based on the wall thickness of the parts being welded together. Global Remote specialises in performing heat treatment for the steel and metal fabrication industries including pressure vessels, pressure piping, storage tanks, buildings, bridges, offshore platforms, power plants, oil and gas refineries, and petrochemical plants. Heat Treatment reduces or redistributes the residual stress introduced by the welding process with a technique that involves heating, soaking and cooling the weldment/machined surface to controlled temperatures.

Pre-Heating

Thermal stresses are likely to occur as a molten weld cools. Cracking can occur during and after welding. Pre-Heating reduces the temperature differentials between the weld metal and the parent metal, thus minimising the tendency to crack.

Post Weld Heat Treatment (PWHT)

PWHT is carried out by using an electrical resistant method or by using high velocity fuel burners (furnace firing or internal firing). There are three main benefits of PWHT: stress relaxation, tempering and hydrogen removal.

Normalising

Normalising or 'Annealing heat treatment' is utilised to improve the mechanical properties, tensile strength, and impact resistance of steel, removing impurities and reducing the likelihood of brittle fractures. Normalizing involves heating and slow cooling which alters the microstructure of the metal which in turn reduces its hardness and increases its ductility. During the normalizing process, material is heated to between 750-980 °C. The exact heat applied for treatment will vary and is determined based on the amount of carbon content in the metal.

Solution Heat Treatment (SHT)

At temperatures between 500º and 800º, certain types of austenitic stainless steels undergo structural changes which are detrimental to their corrosion resistance properties and can allow weld decay to occur. SHT, which raises the temperature of an alloy to 1000 – 1150ºC, followed by its rapid cooling, is one method of protecting steel alloys from such corrosion.

Refractory Dry Out

All furnaces have a type of refractory insulation installed within them. These need to be periodically dried out by experienced technicians who heat the surface gradually until the furnace has reached the manufacturers recommended specifications for optimum use.

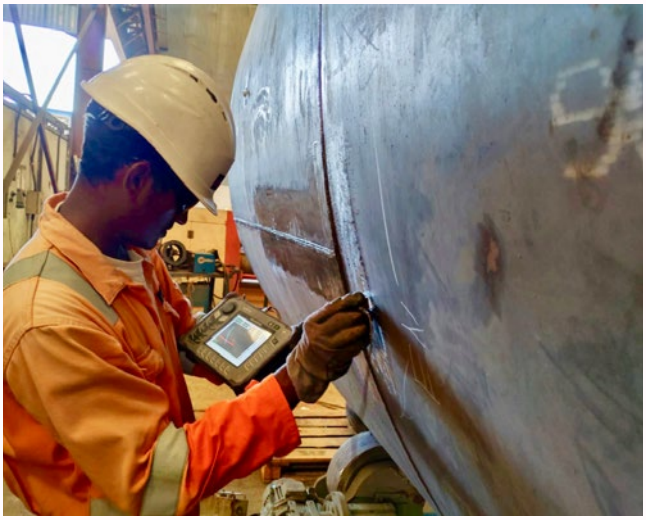
SERVICES – INSPECTION and SURVEYS

Non Destructive Testing

Non-Destructive Testing is an engineering science specialising in the detection and evaluation of discontinuities in materials, without having any deleterious effect on the material being tested. As flaws can affect the serviceability of the material or structure, NDT is important in guaranteeing safe operation as well as quality control and assessing plant life. Global Remote's technicians, qualified and certified in accordance with international certification schemes (PCN (EN 473/ IS0 9712), ANSI CP- 189 and SNT-TC 1A), assess flaws and defects in line with national and international standards and codes of practice. NDT methods we utilise include:

Conventional NDT

- Liquid Penetrant Testing
- Magnetic Particle Testing
- Visual Testing
- Ultrasonic Testing
- Eddy Current Testing
- Radiography Testing
- Positive Material Identification
- Vaccum Box Testing
- Hardness Testing



Advanced NDT

- Phased Array Ultrasonic Testing
- Time Of Flight Diffraction
- Guided Wave Ultrasonic Inspection
- Automated Ultrasonic Testing
- Alternate Current Field Measurement
- Magnetic Flux Leakage

SERVICES – INSPECTION and SURVEYS

Conventional NDT

Liquid Penetrant Testing (PT)

A low-cost method which utilises the capillary actions of liquids to find surface opening defects such as cracks, cold laps and porosity. This technique can be applied to all non-porous metallic and non-metallic materials. The benefits of using PT include it being highly portable, and it is economical choice for a wide range of materials, including complex geometry and large surface areas.

Magnetic Particle Testing (MT)

MT is used for the inspection of ferromagnetic materials to detect imperfections or defects on, or near the surface. Used primarily for crack detection, MT works by magnetizing the specimen utilising a permanent magnet or electromagnet. The main advantages of MT include high portability, the ability to detect surface and subsurface defects, defects are visible to the naked eye, and it is an economical and fast method of inspection.

Visual Testing (VT)

VT is the most commonly used test method in industry as most other test methods require the technician to look at the surface of the material whilst inspecting for surface discontinuities. Corrosion, misalignment of parts, cracks and visual damage are just some of the discontinuities Global Remote technicians can assess with 'direct viewing', using line-of sight vision, or enhanced by utilising optical instruments such as magnifying glasses, mirrors, boroscopes, charge-coupled devices (CCDs) and computer-assisted viewing systems (Remote Viewing).

Ultrasonic Testing (UT)

Ultrasonic testing uses high frequency sound energy to conduct examinations and measurements. The size and location of a discontinuity can be identified by analysing the signals reflected from the flaw, generated by a transducer. UT has wide range of application including corrosion/erosion monitoring and location of manufacturing defects in welds and castings. Advantages of UT include; only single sided access being required with minimal surface preparation needed, high accuracy of shape and size of surface and subsurface imperfections, instant results, and signal data that can be stored for clients' records.

Eddy Current Testing (ET)

This method utilises electromagnetic induction to detect discontinuities in conductive materials. The energized coil in the probe with alternating current generates a varying magnetic field in the test piece. An eddy current is thus induced in the test piece, and its variations and changing phases is monitored through receiver coils or by measuring the changes in primary alternating current. The main advantages of ET include detection of very small cracks, its high portability, suitability for complex geometry, capacity to measure through a coating as well as measuring coating thickness, and its ability to be used without a liquid couplant.

SERVICES – INSPECTION and SURVEYS

Conventional NDT

Radiography Testing (RT)

Industrial radiography is used for a variety of applications and is commonly performed using two different sources of radiation, X-Ray and Gamma ray sources. The choice of radiation sources and their strength depends on a variety of factors including size of the component and the material thickness. The benefits of RT include; minimum surface preparation, detection of surface and sub-surface defects in complex assembled structures, the isolation and inspection of internal components, and the ability to measure dimensions, angles, thickness, corrosion, flaws and density changes within the material without sectioning. RT also provides a permanent record for clients' records. Global Remote offers the range of RT services including conventional radiography, Small Controlled Area Radiography (SCAR), Computed Radiography (CR), and Digital Radiography (DRT).

Positive Material Identification (PMI)

PMI is rapidly emerging as an integral part of process safety management and quality control in many industries such as electric power generation, construction, manufacturing, chemical processing, oil refineries and petrochemical plants. Using modern, hand-held, portable X-Ray Fluorescence analysers, Global Remote provides material identification and quantitative elemental determination for a wide range of items, including pipes, tubes, forged bars, valves, weld seams, tanks, vessels and structural supports, even in arduous conditions. Today's industry standard requires 100% PMI of all critical materials such as alloys used throughout the physical plant, not just spot testing of subassemblies. Global Remote technicians can provide a cost effective and efficient service to ensure clients adhere to best practice and meet industry standards.

Vaccum Box Testing (VBT)

Vacuum Box Testing (VBT) is one of the safest and most reliable non-destructive test methods. The vacuum box bubble test can locate leaks in a test area that cannot be directly pressurized and is used to test the integrity of the seal between two plates, usually on a lap weld joint. The test is performed by applying a detergent solution on the test area and creating a vacuum around the test surface by external vacuum mechanism. The primary application of VBT is in new tank floor construction in the petrochemical field and is commonly used in tank inspections for roof and floor repairs. Special box shapes can be made to test corners and curved surfaces.

Hardness Testing

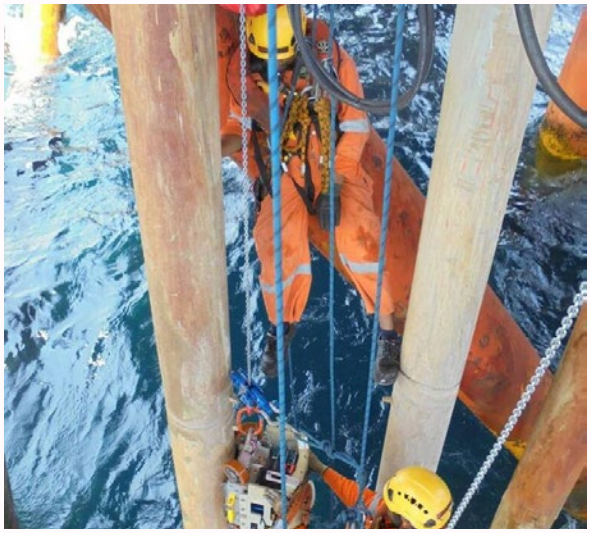
Hardness is the measure of how resistant solid matter is to various kinds of permanent shape change when a force is applied. Macroscopic hardness is generally characterized by strong intermolecular bonds, but the behavior of solid materials under force is complex, therefore there are different measurements of hardness: scratch hardness, indentation hardness, and rebound hardness. Hardness is dependent on ductility, elasticity, plasticity, strain, strength, toughness, visco-elasticity, and viscosity. Hardness Testing is typically performed by pressing a specifically dimensioned object (indenter) into the surface of the material. The hardness is determined by measuring the depth of indenter penetration or by measuring the size of the impression left by the indenter.

SERVICES – INSPECTION and SURVEYS

Advanced Non Destructive Testing

Non-Destructive Testing has changed emphasis over recent years from a focus on detecting defects arising during the manufacture of new products, to detecting process induced integrity problems. Global Remote has established itself at the forefront of these NDT technological advances, through its investment in state-of-the-art equipment and specialized technician training to meet this step-change. The result is a developing equipment infrastructure that offers a comprehensive range of advanced NDT services.

GR employs experienced fully qualified NDT level III technical support personnel who maintain the organizations competitive advantage by constantly monitoring and evaluating incremental innovations in inspection technology. Based in the strategically located centers, our advanced NDT service portfolio offers all our clients a proven record of delivering a safe, technically sound and cost-effective service.



Phased Array Ultrasonic Testing

The Phased Array Ultrasonic Testing (PAUT) technology, an advanced ultrasonic testing method, is a volumetric inspection method with a wide range of applications including weld inspection, crack detection and the monitoring of corrosion. This ultrasonic method is highly versatile, especially for mapping components with highly complex geometry by using a multi-element probe whose elements can be steered to a specific angle, focal distance, and focal point size, using computer-controlled excitation. This maximizes detection of defects regardless of its orientation, while optimizing signal-to-noise ratios. Phased Array inspection offers faster inspection in comparison to manual ultrasonic testing, multiple display formats of the data collected, and increased safety as there are no radiation or environmental hazards when using this technique. Phased Array inspection of welds, as carried out by Global Remote conforms to ASME CC 181 and CC 2235-9 standards.

Advantages

- Excellent repeatability
- Multiple format and fully stored data for records
- High quality and versatile inspections
- Rapid inspection and results
- No disruption to productivity or operation of equipment
- No radiation or any other safety issues
- A fast and economical alternative to Radiography Testing (RT)
- High portability and versatility enables access to difficult areas by rope access

Applications

- Phased Array corrosion mapping
- Phased Array flange inspection
- Phased Array pipeline inspection
- Phased Array on small bore piping

Time Of Flight Diffraction

Time Of Flight Diffraction (TOFD), an advanced ultrasonic testing method, uses two longitudinal wave (L-wave) angle beam transducers arranged symmetrically opposite to each other. One probe functions as a transmitter of ultrasonic energy while the other probe as receiver, in a pitch-and-catch mode. A single-axis scan with an encoder recording the position of the weld enables the display of digital images in real time. TOFD detects, sizes, and records signals diffracted from the tips of defects. The TOFD data is displayed in a grayscale B-scan view. TOFD inspection of welds, as carried out by Global Remote conforms to ASME CC 181 and CC 2235-9 standards. TOFD accuracy for the measurement of remaining wall loss is estimated typically at ± 0.75 mm. The accuracy of measurement of change in wall thickness within a single scan is estimated at ± 0.50 mm.

Advantages

- Utilising diffracted signals, detectability does not depend upon defect orientation
- The setup is independent of weld configuration
- No difficulty in detecting planar defects or cracks in any orientation
- Accurately measures defect height
- Inspection results are instantly available
- High speed and high repeatability in performing inspection
- More economical compared to radiography for thicknesses above 25 mm
- Inspection can be performed at the range of 200 °C.

Applications

- New and existing welds with minimum thickness 7.0 mm and above.
- For service induced defects and structural damage
- Stress Corrosion Cracking (SCC), Low Temperature Hydrogen Attack (LTHA)
- Components with high wall thickness
- Corrosion/ erosion profiling
- Pressure systems, vessels, tanks, spheres, pipelines etc.

Guided Wave Ultrasonic Inspection

Guided Wave Ultrasonic Inspection (GUL) method (also known as Long Range UT (LRUT)), is used to inspect 100% of a pipe segment from one location. GUL's primary application is within oil and gas refining, petrochemical, storage, offshore and pipeline transportation industries, and is used to inspect piping systems that are difficult to access. Guided waves are induced into the pipe body and propagated along the segment being inspected. Upon identifying an anomaly or pipe feature, the mode converted flexural waves reflect to the original tool position. The time-of-flight is used to calculate the distance from the tool, while the amplitude is related to the cross-sectional area. Then the circumferential extent determined by the focused beams provides the information to determine the significance of the defect.

Advantages

Unlike traditional inspection methods, GUL promotes condition-based inspections, aimed at supporting mechanical integrity and preventative maintenance programmes. It is for this preventative value that many clients are choosing to use the GUL method of inspection. The GUL equipment is also extremely portable, which enables Global Remote technicians to inspect the most difficult to access areas using rope access techniques, very easily, thereby considerably reducing inspection time and cost. Benefits include:

- Large sections of piping can be inspected rapidly and safely, often with no scaffolding
- Minimal insulation removal for Corrosion Under Insulation (CUI) inspections
- Localised damage can be pinpointed and characterised as to length and depth
- An excellent tool for cased crossings and 'unpiggable' pipes
- Point of contact corrosion can be found without moving the pipe, avoiding potential leaks
- High portability enables access to difficult areas by industrial rope access

Examples of where GUL can be deployed:

- Insulated Pipe
- Offshore Pipeline Risers
- Cased Road or Railway Crossings
- Loading Lines and associated Pipework
- Tank Dyke Pipeline Crossings
- Above Ground or Buried Flow Lines
- River or Bridge Pipeline Crossings

SERVICES – INSPECTION and SURVEYS

Automated Ultrasonic Testing

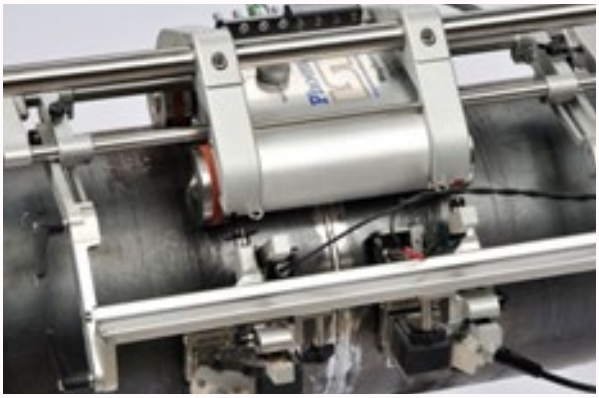
Automated Ultrasonic Testing (AUT), is an alternative advanced ultrasonic testing method, as it utilises a built-in automated scanner. AUT utilises a multi-channel digital ultrasonic system with a motor driven scanner to perform on-stream inspection on a wide range of equipment. In AUT, a Pulse-Echo method is used while performing corrosion mapping, hydrogen cracking and other related cracking tests. Advanced UT methods such as TOFD and PAUT can be set up as automated systems. TOFD is used for heavy wall reactors, vessels and piping, and PAUT is ideal for complex geometries (nozzles, branch connections, flange faces etc.,). Two or more techniques can be combined in one scan, satisfying a client's requirement to increase the overall output and efficiency of the system.

Advantages

- Ability to document and visually present the size of the defect
- High repeatability allows continuous monitoring of growth of critical flaws
- Data image is in real-time and stored in
- This "On-line" inspection promotes efficient planning
- Minimises costly internal entry inspections performed while in service
- Combining UT methods optimises the output, time and cost of the inspection
- "On-line" inspection promotes efficient planning
- Assists Risk Based Inspection (RBI), Fitness For Service (FFS) and Remnant Life Assessment (RLA) programmes

Applications

- In-service scanning of vessels, tank walls, towers, drums, steel plates, in-line inspection validations, pipelines and numerous other applications
- Gives maximum production and efficiency by using a multi-channel digital meter, motorised scanning system and multiple transducers
- Single and/or multiple angle Pulse - Echo transducer configurations enable location and identification of nearly any type of damage mechanism such as corrosion, erosion, hydrogen induced cracking, stepwise cracking, laminations and stress corrosion cracking



Alternate Current Field Measurement

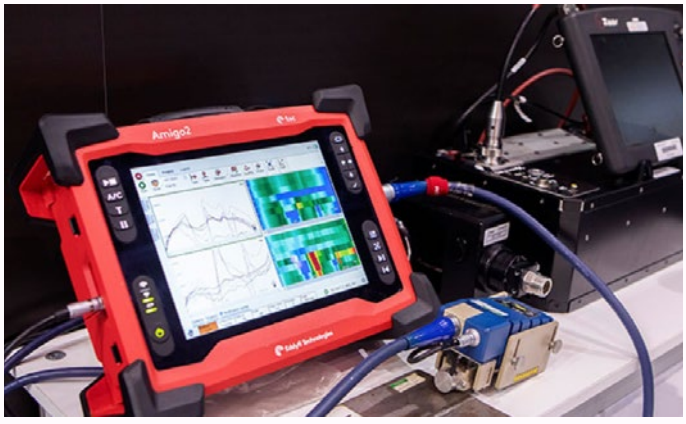
Alternate Current Field Measurement (ACFM) is an electromagnetic method used for the detection and sizing of surface breaking cracks, particularly suited for inspecting painted and welded structures. An alternating current is induced into the area of inspection using an ACFM probe. In ideal conditions, a uniform magnetic field is produced, however any defect or discontinuity will force the magnetic field lines to change course and a non-uniform field is formed. The sensors in the ACFM probe measure these field variations and relate it to the defect size. The system software allows for the measurement of crack depth and length in real-time. The ACFM equipment has high portability, which also enables the Global Remote technicians to use industrial rope access techniques to inspect the most difficult to access very easily, and this promotes its wide application in the industry.

Advantages

- Can be performed through coating (strictly adhered coating)
- Eliminates extensive cleaning
- Can be performed with minor scaling and debris
- Indications can be sized in depth and length
- High temperature application
- Permanent data records and offline analysis
- More precise than conventional methods
- High portability enables access to difficult areas by industrial rope access

Applications

- Detects defect sized >5mm-10mm long and 0.5mm deep
- Structural Welds (Platforms and Drilling Rigs)
- Offshore Cranes
- Cooling Towers
- Storage Tanks
- Pressure vessels
- Note: not recommended for short sections



Magnetic Flux Leakage

Magnetic Flux Leakage (MFL), is a technique used in the detection of wall-thinning, pitting and corrosion in a variety of steel structures, including storage tanks and pipes. Global Remote technicians use MFL to survey tanks and pipes in a variety of sectors including the oil and gas and chemical industries, liquid storage facilities such as breweries, and food and grain storage. MFL tools are versatile and can be used to detect faults in any steel structure. MFL involves the creation of a powerful magnetic field that is passed through the steel structure. If the structure has no defects, the magnetic flux remains unaffected. Sections of the structure that are defective through corrosion or pitting will begin to leak magnetic flux which identifies flaws.

Global Remote uses sophisticated MFL equipment such as Floormap VS2i or Floormap 3D, which provide accurate data on the severity and exact location of the defects. For pipeline inspections, we use advanced tools that scan the entire pipe circumference and length, giving detailed information on the condition of the pipe wall. The MFL technology that we use for all of our testing provides high-resolution pictures and a complete set of data that is essential for making sure your steel structures or pipes are maintained to the highest standard.

The benefits of MFL testing:

- Faster and more efficient than other testing methods – No downtime in operations
- Precise location of faults
- Accurate evaluation of the severity of fault
- Effective on thick steel walls and floors

We specialise in MFL testing for the following industries:

- Oil and gas companies
- Petrochemical companies
- Pharmaceutical companie
- Liquid storage – brewers and distillers
- Storage facilities
- Energy companies
- Food and grain storage
- Construction companies

We provide the following MFL services:

- Detection and analysis of defects
- Pipeline inspections
- Automated CAD drawing of structure from data collected
- Severity of corrosion included in the reporting
- Floormap reports
- Weld defect reports
- High resolution images
- Detailed statistical analysis

SERVICES – INSPECTION and SURVEYS

Marine Class Survey

Marine Class Surveys remain a critical requirement for any owner or operator in the marine and energy sectors. These classification surveys of ships and offshore installations are carried out to verify their compliance and technical documents to determine the possibility of assignment, renewal, reassignment, retainment and confirmation of the Register class according to their purpose and to ensure the protection of human life at sea, the safe and reliable transport of passengers and cargo, and the prevention of pollution environment. As an accredited ABS and BV surveyors, Global Remote can assist our clients establish renewal surveys for ongoing certification, or base line surveys for new vessel certification, and are carried out in accordance with the General Provisions on classification. Types of periodical surveys that we can carry out:

Annual Survey

The annual survey is aimed at establishing that the ship or facility sufficiently meets the conditions of class retainment, as well as to check the operation of mechanisms, devices and installations, to which the requirements of the Rules for the Classification and Construction of Sea-Going Ships are applied.

Intermediate survey

The intermediate survey includes checking of hull structures, machinery, boilers and pressure vessels, equipment and supplies, electrical equipment to ensure that they remain in good condition for the type of ship operation, for which they are intended. Intermediate surveys are conducted during or between the second and third annual surveys.

Special Survey

The special survey is conducted for the renewal of the class and aimed at establishing that the technical condition of the ship or facility and changes in the composition and design of its facilities meet the requirements of the Rules. Special survey is conducted at intervals that do not exceed 5 years, with the renewal of the class, as a rule, for the next five-year period.

Hull Survey

Survey of the underwater hull sections is carried out in order to check the technical condition for compliance with the rules: underwater hull; outboard holes and sea valves in underwater hull; underwater parts of steering gear; shafting, propulsion devices and other items of technical supervision, whose survey can only be conducted when the ship is in dock.

SERVICES – ASSET INTEGRITY MANAGEMENT

Asset Integrity Management

Asset integrity, or asset integrity management systems (AIMS) is the term for an asset's capacity to run effectively and accurately, whilst also protecting the wellbeing of all personnel and equipment with which it interacts – as well as the measures in place to assure the asset's life cycle. Plant integrity, safety, and reliability are major concerns to all plant owners, operators and managers. The primary objective of Asset Integrity Management (AIM) is to maintain the asset in a fit-for-service condition while extending its remaining life in the most reliable, safe, and cost-effective manner.

While many operators will have some form of AIM programme in place, implementation of a fully compliant program is increasingly challenging for most organizations, due to increased regulatory oversight, increased operating costs, and limited available resources. The Global Remote group of companies is able to effectively partner with our clients to help them overcome these challenges. Our AIM subject matter experts provide integrated solutions in relation to risk-based, time-based, or condition-based programmes and at any level of the development and implementation process. Our programs meet international accepted best practices such as PAS 55 requirements. Services included in this approach are:

- Risk-based Inspections
- Facility Management and Maintenance
- Operational Integrity and Condition Assessments
- Mechanical Integrity Management Systems
- Software Solution

These technical consultancy services are combined with traditional services such as inspection, non-destructive testing, QA/QC and software solution to create an integrated solution.

SERVICES – STORAGE TANKS

Tank NDT Inspection

Global Remote provides expert Non-Destructive Testing (NDT) of tanks of varying shape and size, used in a range of different industries. We work with companies that use tanks containing oil and gas, biomass and waste, fuel, food and grain, brewery products, general liquids and many others. The purpose of a non-destructive test is to highlight any deterioration or flaws in the structure of the tank that could cause leakage or complete failure. Factors that can contribute to the failure of a storage tank are the contents of the container, the weather, or the presence of nearby industrial processes. These can all contribute to leakages that may negatively affect the environment, personnel and profits.

The NDT inspection will find areas of corrosion or excessive wear by testing the thickness of the shell material. It will also identify cracks, laminations, voids and any other structural deformities including bulges or indentations. Other problems that can be identified by an NDT inspection are blocked drains, blocked vents and defective access arrangements such as ladders or stairways, which are potential health and safety hazards. The benefits of NDT are that the contents of the tank will not be disturbed, and an inspection allows you to detect and rectify defects before they become a major problem affecting productivity and cost. It is recommended that NDT is incorporated into your regular inspection and maintenance programme to ensure that your storage tanks remain safe and secure. Our NDT technicians use highly calibrated equipment to make sure you get an accurate picture of a tank's condition. We use the latest methods such as 3D laser scanning and floor-scans to create visual maps showing the condition of the floor-plates and shell. All of Global Remotes' NDT techniques and equipment complies with international standards.

We specialise in providing NDT for:

- Storage facilities – for bulk liquids or solids such as animal feed
- Distribution and logistics depots
- Fuel terminals
- Refineries – oil or gas
- ower plants
- Biomass and waste

Global Remote's services include the following NDT methods:

- Visual inspection
- Ultrasonic thickness measurement
- Surface defect detection – using Dye Penetrant Inspection (PT), Eddy Current Testing or Magnetic
- Particle Inspection (ET or MT)
- Volumetric defect detection – using radiography or ultrasonic testing

SERVICES – STORAGE TANKS

Tank Settlement and Calibration Survey

Global Remote offers advanced state-of-the-art inspection and calibration surveys of tanks of any size or shape. We survey tanks designed to hold oil and gas products such as crude oil, petroleum products, LPG, etc., as well as tanks designed for storage of bulk liquids, such as brewery tanks or solids, such as food or grain. Our technicians use versatile software and the latest laser measuring equipment including Electro- Optical Distance Ranging (EODR) laser scanning devices, to ensure both speed, accuracy and minimum impact when strapping tanks used for storage. All of our tank calibration services adhere to international standards such as the International Standards Organisation (ISO) and / or standards set by the American Petroleum Institute (API).

Storage Tank Calibration

Tank calibration is the science of determining the exact volume of a containment system corresponding to a certain measurement value. This accuracy is critical for the worldwide trading of chemicals, petroleum products and liquefied gases. At Global Remote, we use the latest and most innovative laser-calibration measurement technology to help clients reduce downtime and costs related to tank management. All our calibration services adhere to International Standards and local government regulations. Our experienced technicians can conduct field or site dimensional measurement for various tank shapes as follows:

- Vertical Cylindrical Tank
- Horizontal Cylindrical Tank
- Spherical Tank
- Or any regular volumetric tank

Global Remote adheres to the following American Petroleum Institute (API) standards:

- Chapter 2.2A Measurement and Calibration of Upright Cylindrical Tanks by the Manual Tank Strapping Method
- Chapter 2.2B Calibration of Upright Cylindrical Tanks Using the Optical Reference Line Method
- Chapter 2.2C/ISO 7507-3:1993 Calibration of Upright Cylindrical Tanks Using the Optical-Triangulation Method
- Chapter 2.2D/ISO 7507-4:1995 Calibration of Upright Cylindrical Tanks Using the Internal Electro-Optical Distance Ranging Method
- Chapter 2.2E/ISO 12917-1:2002 Petroleum and Liquid Petroleum Products—Calibration of Horizontal Cylindrical Tanks – Part 1: Manual Methods
- Chapter 2.2F/ISO 12917-2:2002 Petroleum and Liquid Petroleum Products—Calibration of Horizontal Cylindrical Tanks—Part 2: Internal Electro-Optical Distance-Ranging Method
- Chapter 2.2G Calibration of Upright Cylindrical Tanks Using the Total Station Reference Line Method Standard 2552 Measurement and Calibration of Spheres and Spheroids

SERVICES – STORAGE TANKS

Shore and Ship Tank Calibration

Global Remote provides accurate and detailed measurement and calibration of large petroleum, fuel, and chemical cargo storage tanks of various shapes and sizes. Tank calibration includes shore tanks and ship tanks used for holding crude oil, refined petroleum products, LPG, LNG, and other wet or dry bulk cargoes using the latest state-of-the-art technology for tank calibration. Loss Control Investigations can also be carried out by our experienced technicians. Measurements will include detailed assessments of wall verticality, roundness and shape, along with roof and floor profiles. Tank calibrations are conducted to ISO and API standards. Detailed volumetric tables are compiled for each tank and can be formatted according to the client's requirements.

Global Remote offers calibration services for the following storage tanks:

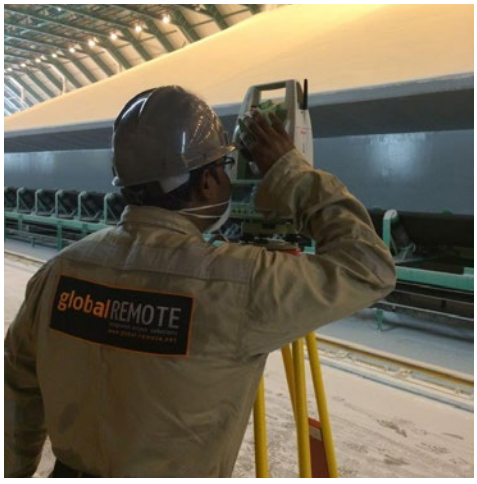
- Vertical Tanks
- Horizontal Tanks
- Spherical Tanks
- Cylindrical Tanks
- Double-wall Tanks
- Fixed Roof Tanks
- Floating Roof Tanks
- Domed Roof Tanks
- Conical Roof Tanks
- LNG Tank Calibration

Tank Structural Profile Surveys

Storage tanks require periodic surveys to monitor long and short-term movements, settlements of the foundation and other changes such as tank shell deformation due to liquid head pressure, disproportionate sand and backfill materials or tank foundation distortion. Global Remote is experienced in measuring tank floor settlement, tank verticality and deformation of the tank shell internally and externally. Global Remote adheres to API 653 standards for conducting Tank Structural Profile surveys.

Our Tank Structural Profile Surveys include:

- Tank Roundness / Ovality Survey
- Tank Plumbness / Verticality Survey
- Tank Shell Settlement Surve
- Tank Bottom Profile Survey



globalREMOTE integrated solutions

SERVICES – STORAGE TANKS

Tank Refurbishment and Repair

Global Remote helps to protect your tanks, the environment and your overheads. We provide a full range of cost effective, safe and reliable services for tank refurbishment in accordance with API 653, AWWA, and other national and international standards for repair, alongside inspection and testing services. We work with companies that hold a variety of substances in storage tanks, including oil and gas, food and grain and other general liquids. We recommend periodic inspection and testing of your tanks in accordance with local and international codes of best practice to highlight when maintenance or refurbishment is necessary in order to avoid the cost of having to replace your tanks entirely due to unseen damage. Our Global Remote technicians have years of experience working with both aboveground and underground storage tanks. Work is conducted efficiently and with minimal disruption. As a full Inspection, Maintenance and Repair (IMR) Service Company, Global Remote offers the following 'one-stop' tank refurbishment and repair services:

- Bottom replacements
- Shell, Nozzles Manways and Appurtenance
- Stair way, Hand rails and platforms
- Blasting and Painting
- Internal and External floating roof installation and repairs
- Horton Sphere inspection and repair

We specialise in refurbishing and repairing tanks for the following industries:

- Oil and gas companies
- Pharmaceutical companies
- Liquid storage – brewers and distillers
- Facility storage
- Waterworks
- Food and grain storage
- Local councils and government agencies
- Construction companies

Ammonia Storage Tank Decommissioning, Inspection, Repairs and Commissioning

Refrigerated anhydrous liquid ammonia storage tanks must be periodically inspected internally to ensure their integrity. This is a complex task requiring the appropriate level of experience of tank design and operations. Adhering to international guidelines, Global Remote provides a comprehensive decommissioning, inspection, repair plan, and finally recommissioning. The utilization of advanced NDT inspection and industrial rope access techniques during tank inspection enables us to significanly minimise the downtime and reduce the out of production time for the tank. This includes single tanks where any negative impact on productivity is of critical importance to the client. Our liquid ammonia storage tank services include:

- Detailed job risk assessment
- Decommissioning and inspection HAZOP study
- Development / action plan based on existing site condition
- Non-Destructive Inspection (VT, PT, MT, MFL, HT, RT etc.)
- Tank Floor and Foundation Inspection
- Tank Repairs
- Commissioning

SERVICES – TRAINING

The Global Remote group is a specialist provider of training and consultancy, focusing on the disciplines of height safety and technical NDT inspection competencies. All our programmes are fully compliant with the strict guidelines as set out by a wide range of industry bodies. Our global reach enables us to conduct all our courses at our regional training facilities or at a client's preferred location internationally.

Global Remote is continually evolving to remain at the forefront of specialist training systems, technologies and their applications.

Technical Inspection Training

The Global Remote group is a specialist provider of advanced technical training and consultancy, focusing on the disciplines of technical inspection competencies. All our programmes are fully compliant with the strict guidelines as set out by a wide range of industry bodies. Our global reach enables us to conduct all our courses at our regional training facilities or at a client's preferred location internationally. The following courses are currently offered by Global Remote.

API Courses

- API 510 – Pressure Vessel Inspector
- API 570 – Piping Inspector
- API 653 – Storage Tank Inspector
- API 571 – Damage Mechanism

ASNT Courses L1/ L2

- Ultrasonic Testing (UT)
- Magnetic Particle Testing (MT)
- Penetrant Testing (PT)
- Visual Testing (VT)
- Eddy Current Testing (Weld scan)

Other Courses

- Overview on (ASME Sec V) – Non-Destructive Examination
- Overview on ASME Sec Viii, Div 1 – Design and Fabrication of Pressure Vessels
- Overview on ASME Sec IX – Welding and Brazing Qualifications
- Overview on ASME Sec II – Selection of Materials
- Overview on API – 579 Fitness for Services (FFS)
- Overview on API Spec. 6 D – Pipe Line Valves
- Overview on API 6 A – Specification for Wellhead and Christmas Tree Equipment

Height Safety Training

Global Remote is a specialist provider of height safety training and consultancy, catering to the energy, civil, marine and geotechnical sectors. We offer a comprehensive package of courses from basic industrial height safety and fall protection, through to tower climbing and advanced technical rescue and evacuation. As accredited trainers, we also offer the syllabus of the Industrial Rope Access Trade Association (IRATA) approved industrial ropes courses.

Strategically based in India and the UAE, we offer our full portfolio from our training facilities in Chennai and Abu Dhabi, or alternatively from a clients preferred location nationally or internationally. Where requested we can customise our courses, providing an optimum mix of practical and theoretical content to best suit a clients' requirements. Our programmes follow the strict guidelines as set out by the British Health and Safety Executive (HSE), and the British Advisory Committee for Work at Height Training (ACWAHT) syllabus. This ensures a quality, best practice product, for all your height safety training needs. The following courses are currently offered by Global Remote.

Industrial Rope Access

- Industrial Rope Access Trade Association (IRATA). Levels I, II and III

Work at Height

- Work at Height (Basic)
- Work at Height (Intermediate)
- Work at Height (Advanced)

Rescue and Evacuation at Height

- Fall Protection Rescue
- Tower Evacuation
- Tower Rescue

Advanced Rescue at Height

- Stretcher Rescue
- Confined Space Rescue
- Tension Line Rescue

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SERVICES – HUMAN RESOURCE

Shutdown and Turnaround Services

Global Remote offers world-class shutdown and turnaround services for a variety of industries that utilise storage tanks and associated pipework. Our expert engineers provide a wide range of shutdown and turnaround services that comply with international standards such as API, AWS, ASNT, BGAS, NACE, CSWIP, PCN, etc.

The skilled inspection and engineering team at Global Remote have years of experience, working on dozens of shutdown and turnaround projects. We offer a full-service package from planning, safety and risk assessments, to carrying out the procedure. Our central focus is on timely completion, without compromising on quality. Our engineers visit the site several weeks or months prior to the scheduled shutdown to begin a pre-plan of resources, logistics and manpower. This planning, well in advance, ensures there are no delays. Rigorous quality control measures are then put in place for the rollout of the services, and inspections are carried out with a range of state-of-the-art equipment adhering to all relevant protocols and industry standards.

Global Remote takes an holistic approach to each project and by planning, managing and delivering the services in-house. We offer a premium service yet manage to keep costs low for our clients. We pride ourselves on being professional, timely, easy to work with and cost effective.

We provide the following shutdown and turnaround services:

- Mechanical services
- Chemical or industrial cleaning
- Industrial high-grade coating
- Insulation renewal
- Catalyst removal and reloading
- Provision of industrial rope access

Our multi-disciplined engineers are qualified in the following areas:

- API 510 certified Pressure Vessel Inspection
- API 570 certified Piping Inspection
- API 653 certified Storage Tank Inspection
- AWS certified Welding Inspectors
- NACE certified Painting Inspectors
- ASNT and PCN certified NDT Technicians
- IRATA approved Rope Access qualified

We can deliver shutdown and turnaround services for the following industries:

- Oil and gas companies
- Petrochemical companies
- Pharmaceutical companies
- Liquid storage – brewers and distillers
- Storage facilities
- Paper and pulp manufacturers

Third Party Inspection

Global Remote specialise in servicing all third-party inspection needs. Our third-party inspection teams have worked within a variety of industries, including the petrochemical, oil and gas, refineries, and food and beverages storage industries. We have built long-term relationships with many clients, providing regular third-party inspections of their resources.

Our independent inspectors provide detailed condition reports, highlighting flaws and defects in storage tanks, pipework, pressure vessels, oil wells, valves, pumps and further advise on remedial actions to be taken. Certificates of compliance can be supplied along with the reports, if the integrity of the structure or infrastructure falls within the specified tolerances. As we operate globally, our inspection teams follow best practice, and are kept up-to-date with international and national inspection requirements and standards. We also confirm any local and governmental guidance and decrees before undertaking any inspection, providing an unparalleled quality and timely service.

The benefits of using a third-party inspection service include:

- Cost-effective – cheaper than training in-house engineers to do the same job
- Unbiased – independent reports that aren't working under any internal pressure
- Up-to-date equipment and training – fully certified, highly competent staff and calibrated equipment

We can provide the following third-party inspection services:

- Non-destructive testing (NDT)
- Storage tank inspection
- Pipework inspection
- Plant inspection
- Pump and valve inspections
- Weld and paint inspections
- Assembly inspections
- Access and safety inspections

We can provide third-party inspection services to the following industries:

- Oil and Gas
- Marine
- Petrochemical
- Energy providers
- Food and beverage storage
- Any industry that uses storage tanks or pipework

SERVICES – HUMAN RESOURCE

Specalised Manpower Recruitment and Supply

Global Remote has a wide array of skilled engineering and inspection staff available for short or long-term hire. With engineers experienced in up-stream to down-stream deployments, Global Remote can provide highly competent engineering and inspection teams at short notice for the petrochemical, refinery, and oil and gas industries. With flagship offices in India, Qatar, Bahrain and the UAE we are able to provide timely staffing solutions anywhere within the Indian subcontinent, CIS region, Central Asia or the Middle East. Our engineers have diverse skills and experience that cover every on-site need and environment a client may have, including fabrication, inspection and testing, NDT, auditing, calibration and management. Our engineering and inspection teams are available to work as subcontractors to third-party agencies.

Utilising our live global database, we can also act as recruitment specialists, assisting our clients locate, interview and test the best talent to ensure success for any engineering project. Global Remote remains up-to-date with the latest developments in the engineering industry and ensures that all our staff and recruits are trained and experienced in the most advanced techniques. We pride ourselves on delivering a service that is unparalleled.

We can provide staff with the following skills:

- Inspection engineers
- Construction and fabrication engineers
- Non-destructive Testing (NDT)
- Plant inspectors
- Painting inspectors
- Welding inspectors
- Hazardous materials specialists
- QA/QC engineers and expeditors
- Auditors
- Calibration specialists
- Various technicians
- Machine operators

Sample projects our engineering and inspection teams have worked on:

- Pressure Vessels
- Storage Tanks
- Towers
- Stacks
- Heat exchangers
- Pipework
- Plant pressure piping
- Offshore oil wells

Global Remote Group – NDT Equipment List

Radiography Equipment

S.NO.	DESCRIPTION	QUANTITY (Nos.)
1	Delta 880 Projector	06 Nos.
2	Densitometer	02 Nos.
3	Dosimeter / Survey Meters	12 Nos.

Heat Treatment Equipment

S.NO.	DESCRIPTION	QUANTITY (Nos.)
1	Heat Treatment Transformer	11 Nos.
2	6 Channel Auto Programmer Unit 110 Volt	06 Nos.
3	12 Pt. Chino EH3127-001 Analogue Chart Recorder 110 Volt	10 Nos.

Ultrasonic Thickness Gauging Equipment

S.NO.	DESCRIPTION	QUANTITY (Nos.)
1	Modsonic - Edison I	06 Nos.
2	Olympus - MG2-XT / 45MG	05 Nos.
3	GE – USM GO+	04 Nos.
4	CYGNUS - Cygnus 2 / 4	09 Nos.
5	CYGNUS – Cygnus M4-UW (Under Water UTT Gauge)	01 Nos.

Ultrasonic Flaw Detector Equipment

S.NO.	DESCRIPTION	QUANTITY (Nos.)
1	Modsonic – Arjun 30 / Einstein II (TFT & Plus)	18 Nos.
2	Olympus - EPOCH 600	02 Nos.
3	GE – USM 36	03 Nos.

Magnetic Particle Inspection Equipment

S.NO.	DESCRIPTION	QUANTITY (Nos.)
1	Gammatec – Electromagnetic Yoke (110V & 220V)	05 Nos.
2	Permanent Magnetic Yoke	20 Nos.
3	Pie Field Indicators	10 Nos.

Eddy Current Testing Equipment

S.NO.	DESCRIPTION	QUANTITY (Nos.)
1	Olympus – Nortec 600	02 Nos.
2	GE – PHASEC 3D	01 Nos.

Advanced NDT Equipment

S.NO.	DESCRIPTION	QUANTITY (Nos.)
1	Phased Array UT with TOFD – M2M Gekko - Eddyfi	01 Nos.
2	Magnetic Flux Leakage (MFL for Tank Floor) – Silverwing	01 Nos.
3	ACFM – TSC Pace - Eddyfi	01 Nos.

Allied Inspection Equipment

S.NO.	DESCRIPTION	QUANTITY (Nos.)
1	Positive Material Identification - PMI (XRF) – Bruker S1 Titan 600	01 Nos.
2	Vacuum Box (Leak Testing)	02 Nos.
3	Portable Hardness Testing Machine	10 Nos.
4	Laser Total Station (Tank Survey Equipment)	02 Nos.
5	Rebound Hammer Testing Equipment (Civil Structures)	01 Nos.

Global Remote Group – Vehicle List

QATAR

MAKE	YEAR	MODEL	TYPE	SEATING	PURCHASED
Toyota	2013	Hilux	Pick Up	5	2013
Mazda	2014	CX9	Small SUV	7	2014
Toyota	2019	Hiace	Minibus	13	2019
Toyota	2019	Coaster	Minibus	23	2019
Kia	2020	Cerato	Compact Sedan	5	2019
Kia	2020	Rio	Compact Car	5	2019
Kia	2020	Sportage	Compact Car	5	2019

BAHRAIN

MAKE	YEAR	MODEL	TYPE	SEATING	PURCHASED
Nissan	2014	Navara	Pick Up	5	2015
Nissan	2016	Urvan	Minibus	15	2016
Nissan	2017	Altima	Sedan	5	2018
Nissan	2016	Navara	Pick Up	5	2018
Nissan	2019	Kicks	Compact SUV	5	2019
Isuzu	2020	D-Max	Pick up	5	2020
Kia	2020	Sportage	Compact Car	5	2019

INDIA

MAKE	YEAR	MODEL	TYPE	SEATING	PURCHASED
Maruti	2011	Eeco 5 Star	Saloon	5	2011
Toyota	2013	Liva	Hatchback	5	2013
Toyota	2013	Innova	Station Wagon	7	2014
Renault	2014	Dustar	Saloon	9	2014
Toyota	2014	Liva	Saloon	5	2014
Mercedes	2017	Benz GLA	Small SUV	5	2017
Mahindra	2017	Bolero	Large SUV	9	2017
Mahindra	2018	Bolero	Large SUV	9	2018
Mahindra	2018	Bolero	Large SUV	9	2018
BMW	2017	X5	Sedan	5	2018
Mahindra	2019	Xylo	Saloon	9	2019
Mahindra	2019	Bolero Plus	Large SUV	9	2019
Mahindra	2020	Bolero	Large SUV	9	2020

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