



Thorne & Derrick
+44 (0) 191 410 4292
www.powerandcables.com



OFFSHORE COMMISSIONING SOLUTIONS ALL COMPANY PROFILE

Table of Contents

1 ORGANIZATION STRUCTURE FOR THE OCS GROUP COMPANIES 3

2 OCS GROUP MISSION..... 4

3 OCS GROUP COMPANY BRIEF 5

4 OCS GROUP SERVICES OVERVIEW 6

 4.1 PROJECT MANAGEMENT AND COMMISSIONING 6

 4.2 RIG/ASSET INSPECTIONS..... 6

 4.3 HAZARDOUS AREA MANAGEMENT, INSPECTIONS AND AUDITS 7

 4.4 MAINTENANCE, REMEDIAL AND ENGINEERING..... 7

 4.5 RIG/ASSET PRESERVATION AND REACTIVATION 8

 4.6 TECHNICAL TRAINING AND COMPETENCE ASSESSMENT 9

 4.7 MANAGEMENT SOFTWARE..... 10

5 GENERAL SERVICES OVERVIEW 12

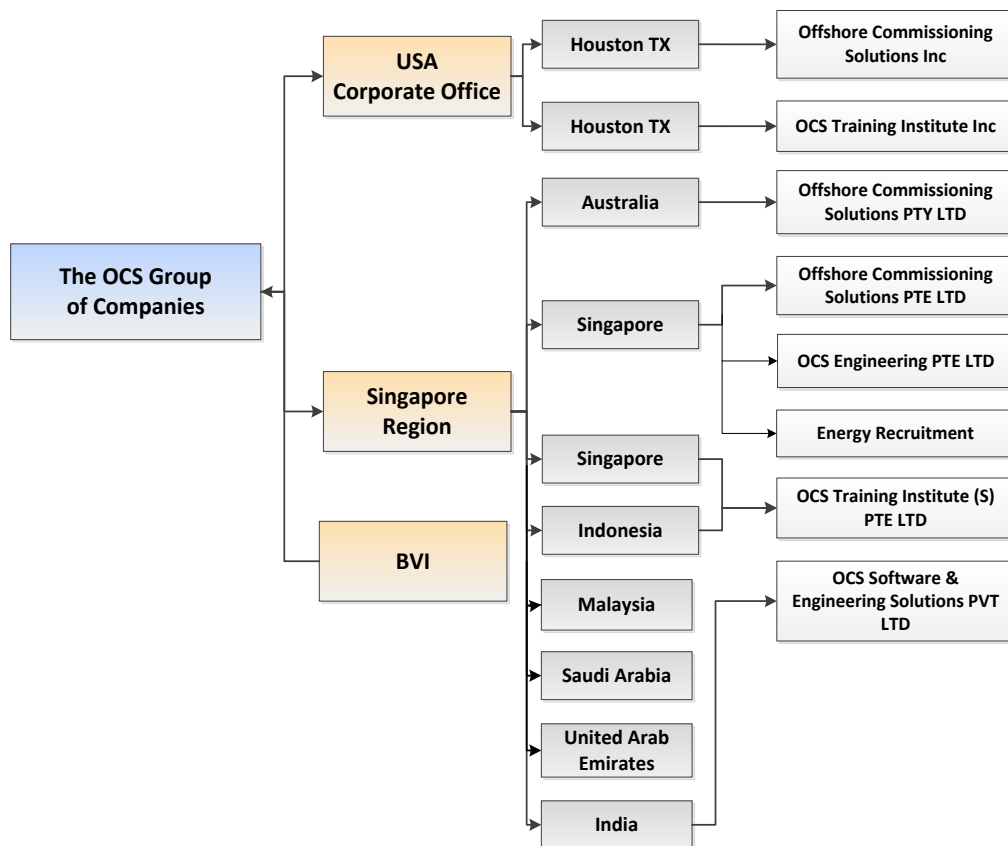
6 QUALITY MANAGEMENT AND CERTIFICATIONS..... 13

7 MEMBERSHIPS..... 13

8 CONTACT INFORMATION..... 14

1 ORGANIZATION STRUCTURE FOR THE OCS GROUP COMPANIES

Diagram 1: Group Holdings of Offshore Commissioning Solutions (2017)



2 OCS GROUP MISSION

OCS Group is dedicated to become the world's premier provider in commissioning, audits, inspections and technical training within the oil, gas and energy industry.

Our mission will be achieved through innovation to improve our service quality and customer satisfaction in a cost effective manner with the highest regard to safety and the environment.

“Excellence” is where we start; “Perfection” is our aim”.

USA (Corporate Office)

Offshore Commissioning Solutions, Inc. & OCS Training Institute

15330 Park Row Blvd.

Houston, TX 77084

Tel: +1 281 579 1066; Fax: +1 282 579 0084

Singapore

Offshore Commissioning Solutions Pte Ltd.

1 International Business Park

#03-13, The Synergy

Singapore 609917

Tel: +65 6896 3343/3345; Fax: +65 6896 0400

India

OCS Software & Engineering Solutions

SBC -16,-2nd Floor, Thejaswini, Technopark,

Trivandrum -695581, Kerala, India

www.ocsgroup.com

3 OCS GROUP COMPANY BRIEF

Offshore Commissioning Solutions (OCS) has for over 20 years provided the industry with exceptional leadership in Project Management, Commissioning, Asset/Rig Inspections, Audits and Technical Training, all supported by OCS Group Software Solutions.

OCS Group is committed to developing innovative solutions to solve our clients' most complex issues. We deliver these services with a commitment to the highest safety and quality standards, evidenced by our ISO9001 and OHSAS18001 certifications.

With offices in the USA, Singapore, Australia, Indonesia, Malaysia, Saudi Arabia, UAE and India, OCS Group provides a wide range of services to international oil and gas industries and other industrial engineering and energy markets.

The following diagram shows the full Life Cycle of Services that OCS provides.



4 OCS GROUP SERVICES OVERVIEW

Project Management and Commissioning
Rig/Asset Inspections
Hazardous Area Management and Inspections/Audits
Maintenance, Remedial Work and Engineering
Rig/Asset Preservation and Reactivation

Supporting our overall services we additionally offer;
Industry Training and,
Software Solutions

For a more detailed listing see [Section 5](#).

4.1 PROJECT MANAGEMENT AND COMMISSIONING

OCS is synonymous with quality, professionalism and experience in delivering and managing project and commissioning operations. OCS Group is one of the most experienced companies in the world with over 150 projects completed globally with experience in all cultural regions and shipyards.

OCS success is attributed to its detailed planning processes and execution from engineering through to commissioning and final asset acceptance or any individual section of a project.

Project Management consists of the following disciplines;

- Engineering
- Planning
- Documentation
- QA/QC inspections
- Pre Commissioning
- Commissioning
- Full Integrated Acceptance Testing (SIT, IAT)

4.2 RIG/ASSET INSPECTIONS

Rig Inspection Services can be tailored to meet our client's requirement needs. These inspections will comprises in an in-depth evaluation that assists in minimizing downtime, enhancing overall efficiency by improvement of reliability and the optimization of safety and environmental impacts of drilling programs.

Our rig inspections include:

- Analysis of equipment condition and standards of maintenance.
- Opening of all major items of equipment for internal inspection.
- Function testing, pressure testing, load testing and insulations resistance checks for all critical equipment.

- Ensuring that all safety devices are installed and are working correctly.
- Preventive Maintenance System and current certification evaluation.

4.3 HAZARDOUS AREA MANAGEMENT, INSPECTIONS AND AUDITS

OCS Group has developed comprehensive Inspection and Audit programs that are unique to the industry. Our methodology provides thorough verification utilizing detailed inspection, testing and reporting. The purpose is to ensure all equipment is fit for purpose, in good operational condition and is in compliance with international standards/requirements. (API, IEC, NEC)

4.3.1 Hazardous Area Electrical (Ex) Management

OCS Group is a leading hazardous area (Ex) equipment Inspection Company, evidenced by our loyal clientele comprised of renowned, international drilling companies. OCS Group follows IEC and NEC standards, employing CompEx certified inspectors to work on every Ex inspection. Additionally, our technical training staff ensures the professionalism of the entire inspection crew and operations personnel have the specialized knowledge and skills necessary to comprehensively complete the job with utmost client satisfaction.

Our hazardous area management plan includes creating a register of every item with in the Ex location. The equipment is inventoried, logged, inspected, tagged and verified for compliance. The end result is a detailed report outlining the remedial tasks required to make the zone safe.

The Hazardous Area Electrical Register (HAER) Inspection consists of several Phases to choose from. Client Preparation required is an up to date area drawings and to provide all hazardous area equipment certification and maintenance system records for review.

- Phase One is a detailed inspection of all Ex equipment located in the identified 'Hazardous Area Locations' (or Zones).
- Phase Two is a separate scope of work of remedial task management to correct the deficient items identified in phase one.
- Phase Three is optional and can consist of a specific scope of work such as an Emergency Shutdown Devices (ESD), or a competency assessment of the assets' workforce in a live simulation of an electrical Safe Work Practices (SWP) audit.

4.4 MAINTENANCE, REMEDIAL AND ENGINEERING

OCS has developed a maintenance audit management program that aids in making your operation safer and more cost effective. Utilizing a proven 3rd party maintenance management program (including inspections, remediation, auditing and training), leads to more efficient operations and increased competitiveness for your asset tenders.

This service includes the following;

- Audits and Inspections
- Operability studies on new equipment
- Company based maintenance systems audited for compliance
- Rig Based audits and maintenance analysis
- Personnel competency assessments
- Staff Framework Assessments
- Predictive maintenance and condition monitoring surveys on installations
- Stock control management
- Vibration analysis; thermal imaging surveys; full NDT range of services
- Marine maintenance and environmental impact on vessel and areas
- FAT attendance to ensure refurbished equipment is prepared per requirements
- Compliance verification of required international standards

4.5 RIG/ASSET PRESERVATION AND REACTIVATION

Rig lay-up and preservation services are tailored to our clients' requirements to prevent excessive or accelerated deterioration of the rig and its equipment. These preservation procedures will greatly depend on a company's needs to either warm stack or cold stack their assets.

- Pre-Stacking Survey for preservation stacking planning
- Warm Stacking (contract ready)
- Cold Stacking (dead vessel)
- Preservative Measures
- Maintenance
- Re-commissioning / Reactivation

4.6 TECHNICAL TRAINING AND COMPETENCE ASSESSMENT

At OCS Training Institute, we understand that a competent qualified workforce is vital to the success of any company. OCS training services are developed to address these concerns in several ways. Our technical training consists of classroom and hands-on practical learning to help prepare skilled manpower for work in the oil, gas and energy industry. Our programs teach critical skills and safety essentials to help companies operate safely and efficiently. OCS Training Institute is the region's leading independent oil, gas and energy technical training provider, having successfully trained over 5,000 craftsmen throughout the years. We offer a variety of classes monthly at our state-of-the-art training institute located in Houston, Texas USA as outlined below.

OCS training also specializes in developing and customizing your unique technical training needs.

OCS Training Institute, Houston is a recognized training provider (RTP) of IEC Ex courses including CompEx and IADC accreditations. Training selections include:

- NEC 500-505 - Ex Training (**New for 2017**)
- STCW Approved - Marine High Voltage Safety Training
- IADC Certified - High Voltage Safety & Switching
- IADC Certified - Hazardous Area Electrical Training
- IADC Certified - Rig Inspection Training
- CompEx Certified - Ex01-04 Training
- CompEx Certified - Refresher Ex01-04R Training
- CompEx Certified - Mechanical Ex11 Training
- CompEx Certified - Foundation Ex F Training



4.7 MANAGEMENT SOFTWARE

OCS Group has developed the most advanced management tracking software systems to date consisting of Project Trac, Hazard Trac, Inspection Trac, DROPs Trac, and MCT Trac. OCS will also develop any technical software that a client may want to adopt.

4.7.1 Project Trac – (Project Management and Commissioning Software)

This software is a complete project management system that is designed to better plan projects and supply critical information for management and supervisors to ensure the project schedule is maintained.

The software can see what issues are causing delays and what needs to be conducted to have them resolved. The system has several tools that supply analytical information that alerts of problems and informs how many activities are needed daily to maintain schedule.

Project Trac identifies every single task that is required, broken down to a single cable installation and testing. This detail defines the work-scope into known packages. This is currently not possible with existing systems and project schedule programs like Microsoft Project or Primavera. With this amount of detail every single work package is identified and system requirements are known.

All outstanding work for a system, or a division or the whole project can be viewed at the press of a button and see what items have to be completed or are holding up the completion of a system / project.

4.7.2 Hazard Trac – (Electrical Hazardous Area Inspections Software)

Hazard Trac, has standardized the inspection and reporting process to enable a detailed analysis on the company's rig, or throughout the fleet and/or total assets. With Hazard Trac, the hazardous area equipment can be downloaded directly to our client's maintenance system to facilitate the tracking of equipment and systemize corrections and maintenance management.

Reporting can be generated by asset location/region and includes a score card for asset management to review the condition of the hazardous areas.

Trending and statistical analysis reporting is additionally provided as a tool to ensure the client can continually improve efficiency for future inspections.

This technology ensures the entire inspection and management process is more efficient and cost effective than ever before.

4.7.3 Inspection Trac – (Maintenance System Interface PDA Software)

Inspection Trac is a PDA inspection system that can record inspection information for any equipment or maintenance function and automatically record associated

information. The maintenance task can then be easily and quickly integrated into the maintenance system.

This process saves a great deal of time from engineers removing the requirement to manually input information. This ensures maintenance activities and the associated information required, is recorded.

Inspection Trac has the advantage over the competitors as it is capable of verifying that maintenance tasks are indeed being conducted efficiently with analytical information of information input and timing.

4.7.4 Drops Trac – (Dropped Objects Software)

Dropped Object inspections are required annually to ensure dropped object risk is a low as possible. More accidents occur because of dropped objects than any other item on rigs.

Drops Trac is designed on a similar Basis as Hazard Trac and is a PDA Software system to improve inspections for Dropped Objects.

The software has all the required check lists items required and guides the inspector to be more consistent with set fail categories and criticality. The register is automatically developed and the inspection results analyzed to help identify recurring issues and how maintenance activities / inspections can be improved.

4.7.5 MCT Trac – (Multi Cable Transits Software)

Multi Cable Transits (MCT) is “Critical Safety Equipment” that is designed to maintain boundary integrity; water tightness, Fireproof and gas tight subdivision to prevent flooding and fires spreading from adjacent spaces.

MCT’s are required by Classification Societies and Statutory Authorities, which is inspected during their various inspections. MCT integrity and maintenance has become an important focus in recent years due to several incidences of vessels near sinking and new legislation is to be introduced to maintain registers.

5 GENERAL SERVICES OVERVIEW

Rig Inspections/Audits	Critical Inspection/Audits
<ul style="list-style-type: none"> • Drilling Rig Condition Inspection • Well Control Equipment Inspection • BOP Maintenance • HSE/Safety Audit • Rig Selection Evaluation • Pre-Purchase Survey • Marine Equipment Condition Survey and Acceptance Testing and Evaluation • Coiling Tubing Units • Legislative Compliance Surveys • SPS Planning and Execution 	<ul style="list-style-type: none"> • Hazardous Area Equipment • DROPs Inspection • Lifting Inspection • Multi Cable Transit (MCT) Inspection • Safety Management Audit • Damage Assessment • Incident Investigations • Vendor Audits • Shipyard Evaluation • Special Equipment Evaluation • Supply Vessel Condition Inspection • Supply Vessel Selection Evaluation • Electrical Safe Work Practice Audits
Commissioning	Maintenance
<ul style="list-style-type: none"> • Project Management • Engineering/Design Review • Construction • Equipment Installation Verification • Pre-Commissioning • Commissioning Services • Procedure Development • Mechanical Completion • QA/QC Planning • Factory Acceptance Testing • Project Software • Integration Acceptance Testing 	<ul style="list-style-type: none"> • Independent Maintenance Quality Audit Service • Maintenance System Audit • Preventive Maintenance System Evaluation • Developing/Updating Preventive Maintenance Systems • Managing Maintenance Projects/Departments • Inspection Software Integration
Technical Training	Technical Software
<ul style="list-style-type: none"> • NEC 500-505 - EX Training • IADC Certified - Hazardous Area Electrical Training • IADC Certified - High Voltage Safety Training • STCW Approved - Marine High Voltage Safety Training • IADC Certified – Rig Inspection Training • CompEx Certified –EX01-04 Training • CompEx Certified –EX01-04R Refresher Training • CompEx Certified –EX11 Mechanical Training • CompEx Certified –EXF Foundation Training • Customized and other Specialized Training Courses • Houston, USA Location is IECEx RTP-Recommended Training Provider for all Ex Courses 	<ul style="list-style-type: none"> • Project Management & Commissioning • Hazardous Area Inspection • DROPs Inspection • Lifting Inspection • Rig & BOP Inspection • MCT Inspection

6 QUALITY MANAGEMENT AND CERTIFICATIONS

- 6.1.1 Det Norske Veritas (DNV-GL) Quality Management System Certification to ISO 9001 since 2004. Scope of Certification; Activities of Project Management, Inspections, and Training for the Oil and Gas Industry. (ISO9001:2015 Certificate-OCS / ISO9001:2015 Certificate-Training) Houston, USA.
- 6.1.2 DNV ISO 9001:2008 Certificate 210833-2016 AQ-AUS-JAS-ANZ Scope of Certification; Project Management, Commissioning, Inspections and Training Services for the Oil and Gas Industry. (ISO9001:2008 Certificate) Australia.
- 6.1.3 Certificate of Registration for the Occupation Health and Safety Management System OHSAS 18001:2007 (OHSAS 18001 Certificate) Singapore.
- 6.1.4 Certificate of Centre Approval for International Operations (Houston USA Centre 019) by JT Limited of UK. Scope of Certification; the competency validation and certification of personnel who work on electrical apparatus for use in potentially explosive atmospheres. CompEx 01-02-03-04; Mechanical Ex11; ExF (foundation); and ExR Refresher of 01-02-03-04. (CompEx01-04 Certificate / CompEx11 Certificate) Houston, USA.
- 6.1.5 International Association of Drilling Contractors (IADC) Accreditation for Hazardous Ex Training, and High Voltage Safety and Switching. (IADC Certificate) Houston, USA.
- 6.1.6 International Association of Drilling Contractors (IADC) Accreditation for Rig Inspection Training (IADC Certificate) Singapore.
- 6.1.7 International Electro technical Commission Ex accreditation, Recognized Training Provider f (IEC/IECEX RTP) Houston, USA.
- 6.1.8 High Voltage Safety Training course (OCSTRI-219), United States Coast Guard STCW (Standards of Training, Certification and Watchkeeping for Seafarers (or STCW)) endorsed certification (USCG Cert) Houston, USA.

7 MEMBERSHIPS

- 7.1.1 Membership with the International Marine Contractors Association (IMCA) since 2011.
- 7.1.2 Membership with the IADC, International Association of Drilling Contractors since 2009.
- 7.1.3 Membership with API; American Petroleum Institute since 2014.
- 7.1.4 Membership with Avetta Consortium since 2016.
- 7.1.5 Membership with Networld since 2011.
- 7.1.6 Membership with Ariba since 2016.

8 CONTACT INFORMATION

Mark Tranfield, Managing Director; mark.tranfield@ocsgroup.com

Philip Williams, General Manager, Singapore; philip.williams@ocsgroup.com

Anna Htoon, Operations Director, Singapore; anna.htoon@ocsgroup.com

George Reid, Technical Manager, UAE; george.reid@ocsgroup.com

John Tranfield, General Manager, Houston; john.tranfield@ocsgroup.com

Sharice Estrada, Director of Operations, Houston; sharice.estrada@ocsgroup.com

Paul Clark, Training Manager, Houston; paul.clark@ocsgroup.com

Lawrie Bain, Business Development Manager, Houston; lawrie.bain@ocsgroup.com

Jorge Garcia, Project Manager-Electrical, Houston; jorge.garcia@ocsgroup.com



THORNE &
DERRICK
INTERNATIONAL

Thorne & Derrick
+44 (0) 191 410 4292
www.powerandcables.com

---End of Profile---