



ENERGY & INDUSTRY DIVISION



Summary of Services



Vendor Surveillance

Quality Control, Vendor Inspection & Expediting are an integral part of project purchasing activities. Applus+ VELOSI offers a complete range of services comprising engineering inspection at the vendor's works. The inspection scope can be stage inspections in accordance with the Quality Control Plan or pre-shipment inspection for letter of credit purposes. Our worldwide vendor expediting services help our clients to reduce delays in the delivery of equipment and materials, ensuring that projects remain on schedule.

Applus+ VELOSI provides vendor assessment and technical capability audits to assist clients in assessing and selecting vendors. Whether for new construction or on-going maintenance, our services give you confidence that purchased equipment will arrive on time and as specified.



Local Third Party Inspection & Certification

Most operating companies in the oil and gas sector demand that engineering, procurement and construction activities are verified, validated and certified by an independent Third Party Inspection & Certification agency.

Applus+ VELOSI certification activities cover every stage of the project including Project Design Verification, Procurement Inspection, Product Inspection, General Construction Inspection, Testing Services and QA/QC services. Our Third Party Inspection services cover all major engineering disciplines.

Applus+ VELOSI undertakes ASME Certification of Pressure Vessels and Boilers/Heat Exchangers, and the Certification of manufacturing workshops of pressure vessels to ASME standards. Furthermore, we undertake CE marking of pressure containers and also IBR certification. Our expert welding engineers can assist in the development of welding procedures for both normal and exotic materials. In addition to welding procedure development and welding inspections, Applus+ VELOSI is able to train and certify welders to meet local and international standards requirements.



Supply of Specialist Personnel

Applus+ VELOSI services are able to cover clients' resource needs quickly and efficiently, and maintain a highly flexible workforce that will meet the needs of their projects. Applus+ VELOSI can provide specialist personnel services to support clientele in QA/QC, NDT, Engineering, Construction, Commissioning, and HSE for various industries. We also offer provision of technical personnel (viz. API certified Inspectors/ Engineers, NDT Specialists, all discipline Engineers, Supervisors, Interface Coordinators, Planning Engineers & Technicians) for Shutdown activities of process plants, gas plants, refineries, and offshore platforms.

Applus+ VELOSI has a strong recruitment team across the globe with its own web based job portal to support the human resources requirements of our clients. Our services include Candidate Sourcing and Assessment, Contract Recruitment, Global Search, Technical Assessment and Interview, Mobilization & Demobilization, Visa & Work Permit Services, Accommodation & Transportation Services, and Bank, Insurance, & Family Assistance to employees.



Project Quality Management

Applus+ VELOSI can undertake total Project Quality Management including QMS/HSE Auditing, Management of QA/QC & HSE Systems, and provision of Specialist Personnel. Our Quality Assurance & Quality Control services can be combined to provide a Total Solution – supervising the work of the nominated EPC or Execution/Construction Contractor during the Engineering Design, Procurement and Construction phases of a project.



VAIL – Plant

This software system has been designed for the Oil & Gas Industry to facilitate Applus+ VELOSI's Risk Based Inspection/Maintenance methodology, helping users to maintain inspection records and to reduce the equipment related risks such as personal injuries and environmental damage.

VAIL- Plant solves the problem of how to manage effectively all types of oil & gas related equipment in a single software package. The various modules of VAIL – Plant thus combine to provide a complete Asset Integrity Management solution.

The modular software system covers:

- CIMS Civil Integrity Management System
- HIMS Hull Integrity Management System
- WHMS Wellhead Integrity Management System
- KPI's Key Performance Indicators
- RCA Root Cause Analysis
- SIL Safety Integrity Level
- FMECA Failure Mode Effects & Criticality Analysis
- PEMS Pressurized Equipment Management System
- SIMS Structure Integrity Management System
- PSVMS Pressure Safety Valves Management System
- LEMS Lifting Equipment Management System
- PIMS Pipeline Integrity Management System Offshore & Onshore
- GIS Geographical Information System
- ERIMS Electrical, Rotary & Instrumentation Management System

Risk Based Inspection (RBI)

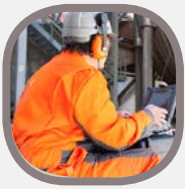
Reliability Centered Maintenance (RCM)

Fitness for Services (FFS)

External Corrosion Direct Assessment (ECDA)

Evaluation and Condition Monitoring of CP





Advanced & Conventional Non Destructive testing (NDT)

Applus+ VELOSI provides Advanced NDT techniques such as Acoustic Emission Testing (AET), Time of Flight Diffraction (TOFD), Phased Array (PA), Long Range Ultrasonic Testing (LRUT), Corrosion Mapping, Tank Floor Scanning with Magnetic Flux Leakage (MFL), Alternate Current Field Measurement (ACFM), Near Field Technique (NFT), Surface Eddy Current Testing (ECT), Eddy Current Array (ECA) and Tube Inspections (ECT – Eddy Current Testing, RFT – Remote Field Testing, MFL – Magnetic Flux Leakage Testing, IRIS – Internal Rotary Inspection System and Acoustic Eye).

Applus+ VELOSI also provides Conventional NDT services such as Magnetic Particle Testing (MPT), Penetrant Testing (PT), Ultrasonic Testing (UT), and Radiographic Testing (RT). In addition we offer Positive Material Identification (PMI), Post Weld Heat Treatment (PWHT), Hardness Testing, Holiday Testing, and Visual Testing (VT).



3D Laser Scanning & As-built Modeling

Applus+ VELOSI offers 3D laser scanning services as a rapid means of producing as-built drawings to an accuracy of +/- 3mm which is both cost-effective and time-saving. Applications range from simple dimensional control to the development of a full 3-D model of a plant incorporating inspection, repair and maintenance data which can be fully integrated into our client's Maintenance Management software or enterprise system such as SAP.

Applus+ VELOSI provides Existing Conditions Data Capture such as as-built data capture, drawing verification, and dimensional survey; 3D Modelling for design & engineering, model creation and audits, and training; also Data Management Services like Asset Life Cycle Information Management, 3D Asset Navigator/Visualisation, integration with O&M Systems such as SAP, Meridium and others, as well as Structured Data Handover (ISO 15926).



HSE Training Consultancy

Applus+ VELOSI HSE and Loss Prevention Professionals are able to assist clients to develop, implement and monitor the policies, processes and procedures necessary to manage Health, Safety and Environment and Loss Prevention in their business. We provide a diverse range of HSE and Loss Prevention Services throughout the Middle East, from landmark Environmental, Social and Health Impact Assessments (ESHIA's) to local, one-off Environmental management solutions, FSHSE Audits, Theme Park and Ride Inspections, producing Safe Operating Manuals and Risk Assessment, HAZIDs, HAZOPs and other Safety Studies (SIL, QRA, etc.). We leverage knowledge and expertise to share the best practices to add value to our client organisation and reduce their risk.

Our technical experts can assist with any environmental concern that you may have. Our expertise includes a range of services to demonstrate your environmental compliance to the regulatory agencies in support of ESHIA's, Construction/Operational Environmental Plans (EMPs), CTC or CTO or any other environmental solutions you may require.

In addition, Applus+ VELOSI consultants can provide the training necessary to develop the competence for on-going identification, evaluation and control of risks in your workplace.

We can develop and deliver accredited HSE training courses and bespoke training tailored to our client's organisation and the intended audience. Our flexible and cost-effective training packages range from traditional presentations to on-line modules.

Applus+ VELOSI is an accredited NEBOSH and licensed IOSH training provider.



Construction Works Consultancy

Applus+ VELOSI provides full discipline technical consultancy services for Buildings and Civil Infrastructure at all stages. From design to construction and O&M including onsite structural asset integrity, to inspection and supervision during the construction process with highly skilled technicians in all areas of civil engineering and buildings. We ensure high quality and control throughout the construction process using the advanced tool SICE: a digital integrated field inspection tool based on a tablet to improve site inspection performance. The result is the best product in terms of time, cost, quality, and suitability.



Geotechnical & Structural Instrumentation and Monitoring

Applus+ VELOSI provides engineering, design, installation, and monitoring of geotechnical and structural instrumentation for safety control of any infrastructure sites, such as dams, underground sites, subways and bridges. The safety monitoring includes risk analysis during the engineering, design, installation and monitoring stages. This service is supported by specific on-line Management Software to provide remote and automatic control of the infrastructure safety behaviour.



Geotechnical Engineering

Applus+ VELOSI provides geotechnical, geological and hydrogeological studies, ground engineering, exploratory probing, laboratory and on-site ground testing, and mining technical assistance. We also provide a comprehensive service for all types of studies related to the engineering, construction and civil works fields, aimed at public or private authorities, construction companies, engineering firms, and developers, etc.



Pavement Management

Applus+ VELOSI provides full client customized service for structural and functional surveys of highways, roadways and airport pavements through multiple advanced techniques. We also provide consultancy services for highway asset management by collecting parameters and inventory and thereby providing the necessary information about the road network infrastructure, which can be utilized during construction and maintenance in order to optimize maintenance investments or increase the value of the assets over time.



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