Industry Solutions
Oil and Gas
Engineering Document Control and Project Collaboration Solutions for Oil and Gas
The Oil and Gas sector today is defined by increasingly complex and large-scale capital projects – a trend likely to continue with the increasing global energy demand and the International Energy Agency (IEA) calling for an energy supply investment of US$1 trillion per year through to 2030.

Such large-scale projects, however, come with a number of challenges. These include:

- A supply chain in the hundreds and sometimes thousands coming from all parts of the world and all with different engineering expertise, processes and document standards.
- Increasingly complicated project frameworks with multiple stakeholders and shifting project boundaries.
- Growing regulatory and safety requirements from offshore requirements to environmental emission standards in processing plants.
- The need to process huge amounts of data with a single oil or gas field generating as much as one terabyte of data per day, according to IBM Consulting Services.

These challenges also come against a backdrop of increasingly strident demands from shareholders, joint venture partners and operators on the need to deliver improved investment returns, reduce risk and exposure and increase transparency.

In summary, Oil and Gas capital projects need to manage costs, mitigate risk, deliver projects on time and on budget, and ensure safe and reliable operations throughout the project lifecycle.

A key element of this is the capturing, management and dissemination of information.

McLaren Software’s industry leading engineering documentation solutions are helping Oil and Gas operators and EPC companies the world over meet their major capital project challenges.

Whether an offshore Oil and Gas rig, pipeline, LNG terminal or gas processing plant, McLaren Software will expedite the project development process, reduce project risk, and accelerate route to market for oil or gas.

McLaren Software solutions are suited to all types of Oil and Gas capital projects from any region to any size or sector - upstream or downstream, onshore or offshore, or oil, gas, shale or LNG.

McLaren solutions have been developed and refined over two decades to:

- Support the lifecycle of the asset from design and construction through to operations and decommissioning.
- Coordinate all vendor activities and documentation to ensure seamless supply chain collaboration.
- Bring greater automation and intelligence to document management and control systems.
- Address all project collaboration and document management and control requirements from the submission and review of drawings through to a business-focused audit trail and hosting on the cloud.

Complex Challenges, Innovative Solutions

A 2012 study conducted by Booz & Co of large scale oil and gas projects found that almost 50 percent underperformed; 30 percent cost more than planned; 12 percent were delivered late and over 30 percent demonstrated significant operational issues.

Through its innovative and intelligent engineering documentation solutions, McLaren Software will ensure that these figures are confined to the past – accelerating project development, reducing risk and delivering safe and sustainable projects throughout the asset’s lifecycle.
Today more than ever, the Oil and Gas industry needs successful document control processes that can mitigate risk and control the project’s value chain, coordinate deliverables from multiple contractors and create an auditable record of what was sent, to whom, when, for what purpose and in what context.

That’s why McLaren Software’s solutions cover the entire Oil and Gas asset lifecycle from design and commissioning through to handover, operations and maintenance and eventual decommissioning. Such an approach ensures:

- A real-time vendor management system that collates, updates, reviews and approves Oil and Gas reports, drawings, data sheets, warranties and specifications at every project stage.
- The tracking and verification of documentation and regulatory compliance throughout the project lifecycle – whether related to safety, the environment, contractual relationships with third parties or different tax regimes as is the case in many Oil and Gas offshore locations.
- Automation and intelligence in all document management and control systems, allowing internal personnel to focus on higher value activities.
- The ability to upgrade systems and equipment and the successful handover of an asset from engineering to operations.
- The delivery of projects on time and on budget.

From start-up to operations in the Canadian oil sands

McLaren Software developed an enterprise-wide document control system for an Alberta oil sands operator. The system covered the production of one thousand drawings per month, 1,600 users and provided access to 57 EPCs worldwide. Each business unit now has responsibility for their own documentation and management and secured access is provided to all EPC personnel.

A $2 billion Capital Project, offshore, Australia

McLaren Software deployed a highly effective document control solution on a major US$2 billion capital project offshore Australia. All correspondence was captured, automatic numbering and filing deployed, and a Transmittal Management and Third Party Interface (TPI) Processes put in place. Today, the solution is managing both controlled and general documents with standardized processes, templates, numbering and filing.
McLaren Software Solutions

McLaren’s engineering document management and control solutions support all lifecycle phases from rig deployment or refinery construction through to rig decommissioning and plant closure. The modular software suite includes everything from drawing and project documentation management through to audit trails, reporting, transmittals, handover, and operations and maintenance.

A Hybrid Approach
McLaren also provides Oil and Gas companies with a privately hosted option that leverages the benefits and scalability of the cloud but integrates with internal interdepartmental processes not already in the public space – processes that come with their own multiple document control features.

Tracking Data and Documents
The tracking of data in the Oil and Gas industry is every bit as important as the tracking of documents. There is a need, according to industry analysts IDC for “a new generation of technologies to economically extract value from large volumes of data.” Source: “The Digital Universe in 2020: Big Data, Bigger Digital Shadows and Biggest Growth in the Far East,” (IDC) (2012). McLaren delivers a complete engineering workflow that supports the control of data throughout project handover as well as ensuring data integrity at all asset lifecycle stages.

Improving Visibility and Transparency
The Oil and Gas sector is often a world of regulation and potential liabilities. McLaren’s document management and control solutions improve the visibility and transparency of the project development process, capturing audit trails, automating document control functions to ensure compliance.

Coordinating Complex and Diffuse Supply Chains
In the Oil and Gas sector, subsea equipment parts may be manufactured in China, constructed in Eastern Europe, integrated into sub-assemblies in South Korea, and then delivered to the Gulf of Mexico. Through cloud-based and/or internal systems, McLaren coordinates vendor activities and documentation throughout the asset lifecycle.

Full Consultancy Expertise
Successful projects are dependent on a clear, set of agreed business requirements. Through business process reviews, recommendations, detailed solutions designs and work breakdown structures, McLaren Software’s consultancy expertise will ensure all Oil and Gas projects are delivered to the highest standards. McLaren also provides Information Management outsourcing services to perform business process using McLaren technology, people and processes.

Partnering with the Best
McLaren Software is only as successful as its technology partners. It’s through these partnerships that customer investments and roadmap and product compatibility are guaranteed. Current McLaren technology partners include Autodesk, EMC, IBM, Microsoft and Oracle.

McLaren Software solutions deliver:
- Consistent and auditable business processes.
- Cloud-based, collaborative solutions.
- Increased scalability, reduced costs.
- Built-in flexibility and configuration.
- Accessible and secure asset information.
- Full integration.
- Configurable templates and work breakdown structures.
- Predefined and configurable reporting – dashboards, drill downs and full audit trails.

300,000 users
15,000 capital projects
50 countries

Partnership with Technology Leaders (EMC, IBM, Microsoft, Oracle)
McLaren Software, part of the Idox Group, is a leading provider of engineering document control and project collaboration solutions supporting all lifecycle phases of operational assets, buildings and facilities. Our customers are leading companies in asset intensive industries including Oil and Gas, life sciences, process manufacturing, construction industries and the built environment.

Founded in 1995 McLaren helps owner operators, EPC contractors, construction companies and facility operators execute safe, efficient, compliant projects and operations in all five continents.

McLaren solutions are available On-Premise or as SaaS or Privately hosted solutions supported by the McLaren OnAir cloud infrastructure with data centers in the USA, UK and UAE.

For more information email us at info@mclarensoftware.com or visit our website www.mclarensoftware.com

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