**FPSO OPERATIONS AND MAINTENANCE**

NIQ has solid knowledge of all systems (the topsides, Hull and Structure, etc. integrated into an FPSO) with an understanding of the different equipment operating conditions, requirements, interaction and dependences to support ensuring the smooth day-to-day running (operation and maintenance) of the FPSO to:

Minimize downtime.

Optimize production performance at lower costs.

Increase safety levels and ensuring compliance to environmental guidelines.

Reduce maintenance cost over the lifetime of the equipment.

In addition to our in-house suite of integrity and subsea engineers with experience of delivering and managing FPSO projects around the world, NIQ can put together a seasoned operations team and have partnerships who possesses a niche in the area of asset management through comprehensive operation, maintenance of a wide range of FPSO assets.

We can deliver local content driven operations with state-of-the-art solutions in a cost-efficient manner by providing a Quality and Health and Safety and Environment (QHSE) program and robust Operations continuity to our clients. This enables the Client to focus on Core business as they are relieved of core competence concerns.

In respect of the lifecycle of any FPSO asset, NIQ can support the Planning, Scheduling, Management and Optimisation of all major maintenance activities including preventive maintenance, planned shutdown and unscheduled repairs during the operations and maintenance phase.

In addition to the above, NIQ has the capacity to support operations readiness and assurance for a new FPSO to be tied to a field by developing or upgrading safety management systems, Integrity management Plan, preparing operational philosophy, guidelines, and procedures.

NIQ can support life extension of an FPSO to identify key operational requirements, recognize the effects of the ocean environment on FPSO operation, given our understanding of the FPSO process system and a great appreciation for safety in operation and maintenance.

During the demobilisation of an FPSO, we can arrange preparation for removal of facilities from the oil field, cleaning out tanks, process vessels, decommissioning and preservation of systems and machineries as well as Hand over management to assets owner.

Risk based Inspection of an FPSO

The inspection of process equipment and structural elements plays a significant role in the prevention of failures. Inspection programs are established to detect and evaluate deterioration due to in-service operation. The methods, frequency, and acceptance criteria used in inspections can affect the likelihood of component failure.

The inspection frequencies for pressure equipment and structures in the oil and gas industry have traditionally been driven by prescriptive industry practices, usually at time-based or calendar-based intervals (not consider the likelihood of failure of an item of equipment or component). However, our Risk-based Inspection approach can offer significant benefits from a more sophisticated inspection approach that supports a comprehensive asset integrity program and an inspection program strategy that combines factors such as satisfactory operating experience, low deterioration rates, minimal consequences of failure, and condition-based inspection interval setting.

**GENERAL ENGINEERING**

NIQ engineering has the capability to successfully deliver a wide range of engineering projects to high quality, safely, and in a timely manner. We understand complexities associated with projects and can proactively manage and communicate potential risk with stakeholders.

Our tailored involvement on a project commences from the concept/feasibility phase to front-end engineering design (FEED) and detailed engineering to the execution phase and support for handover to Operations. Our experts bring experience from having worked on complex brownfield, greenfield, and upgrade field development and asset management projects. Our engineering services can provide bespoke consulting for the entire offshore upstream and downstream lifecycle.

NIQ has experience in logistics, buying, and expediting to help meet the varied needs of our Client and project while leveraging on our global network of vendors and suppliers. We procure and supply MRO (Maintenance, Repairs, and Operations) equipment in the Oil & Gas industry.

We have construction management experience and deliver coordination on any small to large EPC and EPCM project.

**UPSTREAM, MIDSTREAM, DOWNSTREAM**

UPSTREAM

We engage in the services of helping the upstream sector locate, analyse and extract

oil and natural gas from onshore and offshore fields. From exploration, appraisal and development to production and logistics, we offer a variety of services and solutions that cover the entire upstream sector. We also search for potential underground or underwater oil and gas fields, drilling exploratory wells, or operating wells that are recovering and bringing the hydrocarbon reserves to the surface, we assist with analysis, testing, inspection and consultation.

MIDSTREAM

We transport, store and deliver products for the oil and gas industry with

our highly-skilled team of professionals. We service the industry by

ensuring safety and security in order for oil and gas service to

efficiently and cost-effectively reach the end-user.

<!-- DOWNSTREAM -->

NIQ Oil and Gas provide high-quality services in the downstream sector. We are a strong and vibrant player in the downstream sub-sector in the Nigerian oil and gas industry extensive distribution. Niq oil and gas is known for its quality and good service in the downstream sector. We maintain an excellent relationship with our cooperates organization and the general public as well.

NIQ is the supplier of choice of product to our esteemed customers, thus strengthening our commitment to product availability and excellence in service delivery.

We are the leading marketer and product supplier of LPG, PMS, DPK AGO, in the downstream industry in Nigeria. We also have a retail service station in Akwa Ibom State,

We also deal with bulk supply of the refined products trading marketing in Nigeria.

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**INSTALLATION ENGINEERING**

NIQ is a turnkey provider of Offshore Installation Services. We provide customized solutions, and installation methodology to our clients, ensuring a safe and cost-effective offshore solution service is delivered. NIQ provides contract offshore installation management services. The Company offers project and installation management services such as offshore installation contracting, client support and consultancy, and project support engineering services.

NIQ is specialty entails the following offshore installation services:

Flexible flowlines and control umbilical installation, hookups

Subsea Infrastructure

Installations, Tie-in operation, and J-tube pull-in.

Mooring systems installation.

Our project service experience is supported by in-house complex process and analyses capability backed by experiences in pipelay, cable, flexible, and heavy lift installations. Projects involve activities such as SURF/Cable lay dynamic analysis, mobilisation and deck-layout planning & support, complex operations and equipment specification.

We have an inhouse set-up with an extensive track-record and a flexible fleet providing towing, mooring and installation, SURF (Subsea Umbilical, Riser and Flowline) and commissioning services. To achieve an improved fit for integrated project delivery we can keep your facilities operating at optimal capacity, closely matching changing industry demands. We can draw from a range of FPSO systems and life extension projects experiences.

A traditional and robust technical footing in FPSO mooring systems combined with experiences where innovation was essential ensures NIQ marine projects meet economic expectations and technically succeed.

IT Installation Services

We provide cable system design, installation, and project management

services over the spectrum of data, voice, electronic safety & security,

and audio & video technologies, encompassing optical fiber, copper,

and wireless based distribution systems. We also provide software solutions for management, accounting, operations in any platform; web and mobile.