



## **STRUAN ENERGY LTD**

### **Statement of Qualification**

Struan Energy Limited is an Oil and Gas services company based in the North East of Scotland providing consultancy services in:

- Environmental Impact Assessment
- Integrated EHS Management Systems
- EHS Audits
- Incident and Accident Investigation
- Training
- Ad-Hoc HSE Services

#### **Environmental Impact Assessment**

Struan Energy Limited (SEL) has conducted Environmental Impact Assessment (EIA) on a variety of projects ranging from exploration drilling exercises to major offshore developments. The approach taken by SEL to EIA is to fully involve the client project team, engaging their support and input to the EIA process. This ensures that the EIA is closely linked to the project development and in addition clearly identifies the potential for environmental impact arising from project activities.

#### **Integrated EHS Management Systems**

SEL have designed and implemented Environmental, Health and Safety Management Systems for Upstream Oil and Gas companies. SEL can provide help in identifying needs through conducting gap analysis of clients current systems and the development of new systems including preparation of procedures.

#### **EHS Audits**

SEL has experience of conducting EHS audits in a wide variety of geographical locations. Using either audit protocol developed in-house or a standard such as EBRD/World Bank, the company can produce a comprehensive non-intrusive audit that identifies the principle EHS issues as well as providing recommendations for EHS improvements.

#### **Crisis Management**

SEL can offer crisis management consultancy based on years of practical implementation. The core of the methodology is to assist companies to develop crisis management plans that convert a crisis into a project that can be managed. This is achieved through the formulation of procedures and work practices to enable personnel to become familiar with the actions required of them in the event of a crisis.

#### **Incident and Accident Investigation**

SEL can conduct onsite investigations into incidents and accidents and has personnel who are trained as radiological advisors. SEL has experience of conducting materials failure analysis for the private sector as well as National Government Authorities. Failure analysis skills extend to conducting incident investigation for safety and environmental incidents and accidents and near-misses. SEL also has experience in the provision of corrosion consultancy services.

#### **Training**

SEL has experience of training E&P personnel up to post-graduate M.Sc. and Ph.D. level. Training course can be stand-alone, in-house or part of an ongoing M.Sc. program. SEL can also provide training in EIA techniques, environmental legislation, noise assessment, crisis management and general environmental awareness.

#### **Ad-Hoc HSE Services**

SEL can provide advice on a wide range of HSE issues and is able to field a team with diverse and extensive expertise in all HSE issues. This includes radiological protection as well as workplace health protection. Services can include provision of personnel for placement with clients.

#### **Personnel**

Our personnel include staff with 20+ years experience working in the E&P industry including experienced:

- Radiological Protection Supervisors
- Noise Surveyors
- EHS auditors
- Emergency Response Trainers
- Management System Trainers
- Permit and Consent Applications

## **International Experience**

Our international experience includes all aspects of EHS project work and studies in Australia, Azerbaijan, Denmark, Dubai, Equatorial Guinea, Faroes, Greece, Ireland, India, Kazakhstan, Netherlands, New Zealand, Nigeria, Norway, Qatar, Romania, Russia, UK, USA, Vietnam.

## **Clients**

Clients our personnel have worked with include: AIOC, Amoco, BP, Brown & Root, Cairn Energy, Conoco, DNO, EBRD, ELF, European Union, Exxon, Halliburton, Mobil, NAM, PetRom, RasGas, SEIC, Shell, SMNG, Texaco, UKOOA, Worley.

## **Selected Project Experience:**

### *EIA, Equatorial Guinea, PCEGL*

SEL prepared and wrote an Environmental Impact Assessment (EIA) for the exploration drilling of the coast of mainland Rio Muni. The project included identifying the development areas; chemical, physical and biological characterisation of the environment, identifying impacts and recommending mitigation measures for these impacts. The scope of work also include the preparation and drafting of an Environmental Management Plan based upon the outcome of the EIA to help in the reduction and minimisation of impacts.

### *Confidential Project, North Sea UK*

SEL personnel conducted a net present value assessment of a mature oil production asset in the UKCS. The work included an evaluation of the potential production upside of the asset as well as a comprehensive evaluation of the decommissioning liability

### *ACG Phase 1, BP, Azerbaijan*

SEL personnel conducted an environmental hazard and risk assessment of the project and subsequently used this to produce a project description for the EIA report. SEL personnel were also involved in the EIA review process

### *Brent Spar Engineering Project*

SEL personnel through Brown and Root managed the production of a fully costed engineering study that comprehensively described all operations required to decommission the Brent Spar floating installation. The work was performed for Shell as part of a competitive tender process.

### *Due Diligence, Cairn Energy, India*

SEL personnel conducted an audit of an onshore oil drilling facility prior to takeover of the facility. The work included inspecting the site and interviewing key members of the team in the field.

### *EIA, ExxonMobil, Equatorial Guinea*

SEL personnel performed an EIA for a full offshore development including drilling and installation of production facilities in Equatorial Guinea. The work included a baseline survey as well as consideration of the impacts arising from the project linked to environmental characteristics.

### *Environmental Data Management, Shell UK*

SEL personnel were seconded into Shell to develop and maintain a database containing all environmental reporting data for Shell Expro operations. The work required close liaison with operational staff, IT and EHS personnel.

### *ESIA SLIP Document, BP Azerbaijan*

SEL was asked by BP to compile a Supplementary Lender Information Package (SLIP) on behalf of BP for the EBRD. This document comprised a summary, update and clarification of the Shah Deniz Stage 1 ESIA.

### *M.Sc Environmental Distance Learning Package, Robert Gordon University.*

SEL have compiled 20 topics on various aspects of environmental protection and management. These topics form the basis of an environmental learning module for the attainment of an M.Sc.

### *European Thematic Network, European Union*

SEL is part of a network of organisations from public and private sectors, with the aim of helping to satisfy Europe's future energy needs through a sustainable and clean energy supply by addressing the fields of Quality, Health, Safety and Environment (QHSE).

### *Crisis Management Training, ExxonMobil, UK*

SEL were involved in participating in crisis management training exercises on behalf of ExxonMobil as well as updating emergency response training documentation.

**Further examples of experience are available on request.**

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