



## Sludge Processing & Treatment Plant

Remote Systems for Hazardous Environments



## About Us

Established more than twenty years ago, Non Entry Systems Ltd (NESL) is a leading global manufacturer of specialist non-man entry tank cleaning equipment, sludge handling equipment and sludge treatment & oil recovery plants.

NESL is located in Swansea, South Wales in the United Kingdom and operates from an eighteen thousand square-foot facility. As all equipment is conceived, designed and manufactured on-site the facility incorporates offices, R&D, design, fabrication, assembly, testing, preparation & painting, and electrical workshops.

NESL are renowned experts in the design, manufacture and delivery of specialist equipment and systems and offer quality tailored solutions and systems that meet the needs of professional safety conscious contractors. We work closely with our customers, suppliers and end users to ensure compliance with the varying regulatory specifications in different countries. All NESL products are built to operate and last in hazardous environments and as such all products conform with the latest industry regulations such as ATEX, UL, and CE. In addition, all of the company's products are designed with functionality and user-friendliness in mind.

To ensure the highest standards possible, NESL has its own project managers who oversee each and every build. Components not manufactured in-house are sourced from trusted suppliers not only locally but from around the world that meet the same high levels of excellence as NESL. Each major component is catalogued, every serial number recorded and each item of equipment built by highly trained and experienced individuals.

All of the company's products and systems are the result of decades of design, testing, engineering expertise, innovation, dedication and first-hand experience of tank cleaning and its challenges. All these factors have contributed to NESL's equipment operating on storage facilities and refineries around the globe. Through our network of global agents, we are able to respond to any request, at any time.

## Clients Include

- Department of Energy – United States
- IBKA – Europe
- Veolia – Europe & United States
- Evergreen – Canada & United States
- Waste Reduction Services Ltd – United Kingdom
- KSS – Kazakhstan
- Environ - Nigeria
- Sepor – Spain
- Clean Harbors – United States
- PSC – United States
- NG – Norway
- Denholm Macnamee – United Kingdom
- PetroTech Services – United Kingdom

## Products & Services

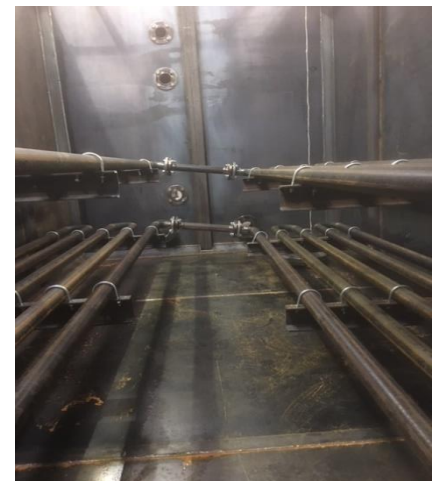
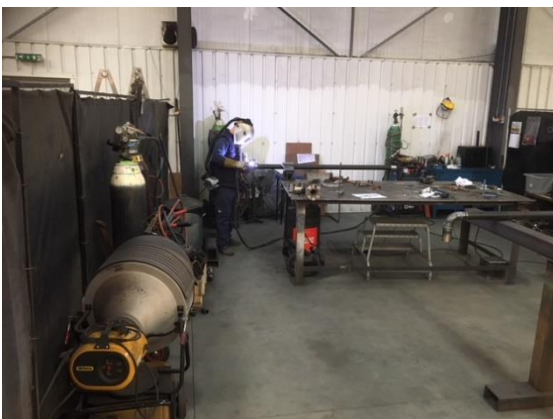
Whatever requirements you or your client have we have a solution available and in the rare circumstances we don't have one readily available, we'll work with you and your client to find one. NESL have been put to the test many times in the past and have always been able to provide an innovative, cost effective and safe solution.

In 1997 NESL built its first total sludge treatment plant that incorporated a heavily modified forty-foot container divided into three thirteen tonne processing tanks with built in heating, circulation, dosing and transfer systems. It also included a three phase centrifuge and separated water treatment system. The systems came to be following a request from a UK based industrial services contractor who wanted a fully portable treatment system that could easily be moved from site to site.

Today the evolution of the system has resulted in the ST150. The system is so new that it's the only one of its kind and is still in the fabrication phase following months of research & design. All components within the ST150 are ATEX compliant and are suitable for use in an ATEX Group II Cat 2 environments.

The major components of the ST150 include:

- Mix & Blend Tank - A modified forty-foot shipping container to allow for two mixing tanks with twenty thousand litre capacity outfitted with twin agitators, pumps, level detection and a full suite of electrical controls.
- The ST150 Container complete with in-built conditioning tank - A heavily modified forty-foot shipping container containing a ten thousand litre heated production tank with mixers, twin progressive cavity pumps, full chemical dosing system, flow meter, level detection, full alarm suite and complete control panel setup.
- Settling Tank - A modified twenty-foot shipping container designed to allow liquid phase to settle out before onward movement. Heating coils built in.
- Two-Phase Centrifuge - UK sourced and supplied, this centrifuge has been specifically engineered for use on oil products. Controlling the centrifuge is the world renowned "viscotherm" system which is coupled to a full PLC control system.





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