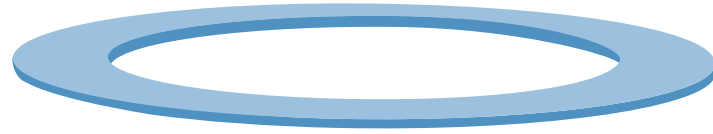
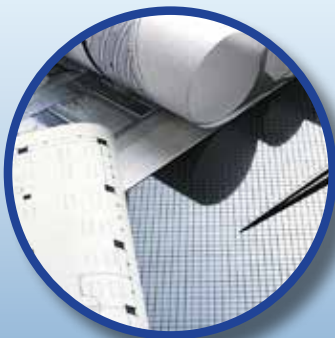


# chester-simplex



Providing innovative products, engineering  
and management solutions



[www.chestersimplex.co.uk](http://www.chestersimplex.co.uk)

**ACS**  
REGISTRARS  
Quality Assurance  
ISO 9001

# Who we are

## Chester-Simplex Ltd

**Chester-Simplex Ltd (CSL) offer decommissioning and project management services primarily in the nuclear industry specialising in innovative engineering and project management solutions.**

CSL was originally founded to engineer and supply Ductile Cast Iron Containers to the Nuclear Industry for the transport and long term storage of Intermediate Level Wastes.

Along with our partners, and through an established supply chain, CSL has extensive and specialist experience in design, construction, manufacture and site delivery.

CSL are fully certificated to ISO 9001-2008 for the provision of professional design, engineering and project management services and supply of nuclear waste containers.



# Management Advisory Services



## Programme, Project and Engineering Management

**Chester-Simplex Ltd has the capability to design and deliver unique programme, project and engineering management solutions dedicated to the needs of each project or organisation in order to achieve specific objectives.**

Our expertise goes beyond the traditional well known methodologies. We work with stakeholders to understand the business imperative and then seek to build a tailored approach to managing programmes and projects, whether that be design, manufacturing, or delivering on site. Our expertise and experience allows us to deliver solutions that enable organisations to achieve significant and lasting business benefit.

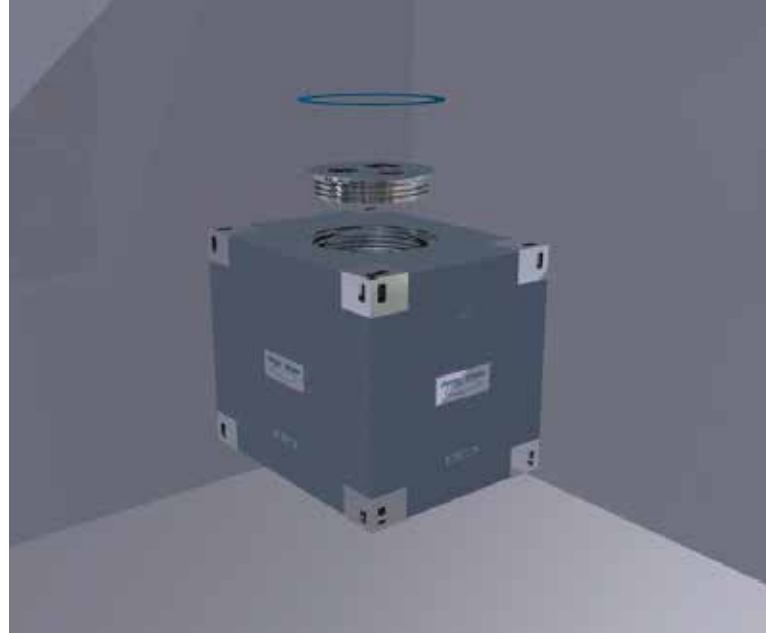
CSL is well placed to provide wide ranging management and advisory services to customers at all levels from 'hands on delivery' to peer review and consultancy services.

# Specialist Engineering & Consultancy Services

**We pride ourselves on being able to provide extensive knowledge and experience in the following areas for our clients through our own and partner capability:**

- Programme and Project Management
- Process Engineering
- Hazops and Hazcons
- Mechanical Design/Engineering
- Finite Element/Stress Analysis
- Civil, Structural & Architectural
- Electrical, Control & Instrumentation
- Mechanical Completions & Commissioning Management
- International Nuclear Transport Licensing
- International Quality Assurance/Control
- Manufacturing Engineering
- Material Analysis (Metallurgy)

This expansive range of expertise allows our clients to have complete confidence in our innovative design and engineered solutions, as well as timely and cost effective delivery.



## Our team is our strength

**Our team have extensive experience of the nuclear and construction industry with specialists in all disciplines including: Quality Assurance, planning and risk assessment.**

**Our team have extensive experience within the Nuclear Industry, Manufacturing and Construction.**

**We have specialists in all the major engineering disciplines for the delivery of all project phases including:**

- **Concept Designs/Feasibility Studies**
- **Front End/Proof of Concept**
- **Detailed Engineering**
- **Manufacturing/Construction**
- **Setting to work/Commissioning**
- **De-bottlenecking and Plant Improvement**

**Our people provide the highest quality of advice, service and support.**



CSL also has arrangements with our partners to provide a full range of skills for maintaining the infrastructure of commercial premises including undertaking ground works and constructing new buildings. These resources are distributed across the UK close to the established nuclear sites. This allows us to mobilise resources with local knowledge and insight allows us to draw upon means that we can be extremely responsive to immediate work needs without having to maintain dedicated site based personnel.



# Our Products

## Self-Shielding Radioactive Waste Containers

Our Self-Shielding Radioactive Waste Containers are manufactured from Ductile Cast Iron and incorporate innovative design features for minimum/zero maintenance.

We are able to supply a 500 litre capacity cylindrical design (DSD/2-S) and a 3000 litre box design (DSB/2-S). Both designs are compliant with IAEA transport regulations. Our designs are also in the process of being assessed for long term storage and disposal in the UK.

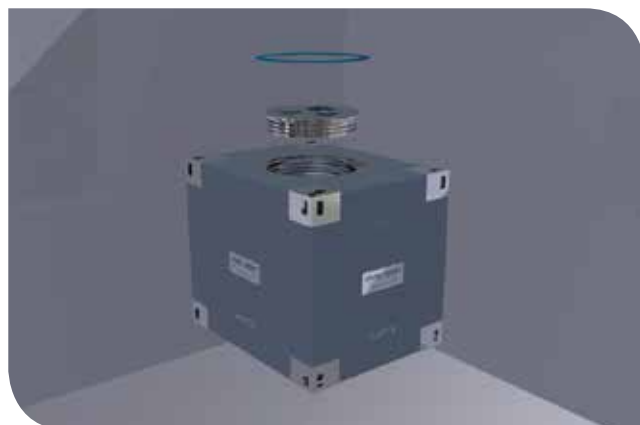


## Some distinctive features of our current products include:

- Unique lidding technology providing significant advantages in some of the most onerous impact scenarios
- Unique sealing arrangement which is not affected by ILW radiation levels
- Sealed for life with a 500 year design life – including primary seals
- Capability to test seals prior to movements without removal of lids or disturbance of primary seal faces
- Use as sealed or vented containers
- HEPA filter option when units are used as a vented container
- Optional pressure monitoring and depressurising system when used as a sealed container
- Optional facility to condition waste once loaded.



We are able to supply bespoke products & engineered solutions for specific client needs.



## Type A Package for Liquids Transport – DN 2039

CSL can supply the 'DN 2039' containers with its partners (who are the design authority for the DN 2039). This is a Type A Package comprising of an outer drum within which purpose made packing and a stainless steel support tray are provided to locate an inner container. The outer drum is a 50 litre stainless steel drum closed by a lever action closure ring. The inner container comprises a stainless steel containment system, with a cavity of 300mm (height) x 185mm (diameter), closed by means of a lid which is sealed by an 'O' ring set into the flange of the container body.

# About us

## Type A Shielded Package for Samples – DN2075 & associated pallet

CSL can supply the 'DN 2075' containers with its partners (who are the design authority for the DN 2075). The flask has 100mm of lead shielding and has a cavity size of 95mm diameter by 800mm long. Its mass is typically 1100kg



## GP3400C Type A Container

Packaging Design No. GP3400C is a small hand portable aluminium container with a dense foam insert, designed to hold up to 8 CDCs or W4 lead pots or an aluminium containment system with integral lead shield (if required), allowing transportation of patient doses of radiopharmaceuticals in syringes or vials. Qualifies for a wide range of product vials.

\* Lead pots and CDCs not included

The GP3400C is lightweight, easy to store, load and transport, and comes with label holders for reversible laminated labels.



**Chester-Simplex Ltd (CSL) was formed to meet the demand for Magnox's ambitious requirements of cylindrical and cuboidal Radioactive Self Shielded Waste Containers (RSSWC's) for the storage and transport of Intermediate Level Waste (ILW). The unique innovative designs developed by CSL are applicable for many other international ILW management programmes.**

CSL containers (cylinders and boxes) are constructed of Ductile Cast Iron and are designed for the safe, effective containment of Nuclear ILW for transport and storage. Our containers are planned to be supplied to Magnox through the recently awarded framework (£200million over 6 years).

Together with our key subcontractors CSL are able to provide bespoke and specialist engineered solutions manufactured to the highest quality standards at a cost effective price. We have international supply chain and logistics established to service requirements all round the world.

Please feel free to get in touch, we would be more than happy to help with any enquiries.



# Contact Us



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