



SERVICES FOR THE NUCLEAR & RADIOACTIVE SECTOR

- + Low Level Waste services
- + Full lifecycle waste management for decommissioning nuclear sites
- + Metal decontamination and recycling
- + Sort and segregation
- + Disposal of LLW
- + NORM management
- + Specialist Industrial Services

0333 034 9004
www.augean.co.uk

WHO WE ARE

AUGEAN IS LEADING THE WAY THROUGH COMPLIANCE DRIVEN SERVICES AND FACILITIES FOR THE UK'S NUCLEAR & RADIOACTIVE SECTOR

INDUSTRY OVERVIEW

The UK has a well-established civil nuclear industry, with the older sites being decommissioned and the power stations currently operated by EDF coming to the end of their generating phase. Decommissioning is managed by the Nuclear Decommissioning Authority (NDA) and the EDF sites will move under NDA ownership once defueling is completed.

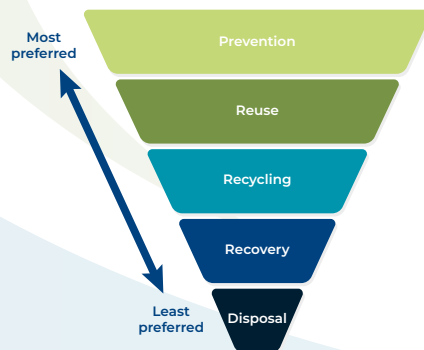
Augean supports the NDA's mission to clean up the UK's nuclear sites safely, securely and cost effectively. Alongside the NDA, Augean manages radioactive waste from a range of other sources, including NORM and Research Sites.

THE WASTE HIERARCHY

Our customers have confidence that all of Augean's services consider the Waste Hierarchy at all stages.

The Waste Hierarchy ranks waste management options according to what is best for the environment. Preventing generation of the waste in the first instance is at the top of the Waste Hierarchy, followed by reuse, recycling and recovery, with disposal being the final option.

Augean can offer waste management solutions that support our customers in complying with the Waste Hierarchy.



OUR COMMITMENT

COMPLIANCE



We ensure that our waste solutions are sustainable by monitoring forthcoming changes in regulation and legislation so that compliance objectives are understood, communicated to our operational teams and customers, and new protocols are implemented as necessary ahead of regulatory deadlines.

HEALTH & SAFETY

Safety is consistently at the forefront of how we operate our business. We operate under a fully integrated Management System, which is accredited to ISO 9001, ISO 14001 & ISO 45001 standards.



WASTE MANAGEMENT



All wastes are managed with due regard to the Waste Hierarchy and Best Available Techniques. We specialise in the development of innovative solutions for the UK's more hard to handle wastes, backed-up by industrial services and decommissioning capability for a complete end-to-end service.

CARBON FOOTPRINT AND ENVIRONMENTAL IMPACT

Our range of eco-friendly solutions aid in reducing the carbon footprint and environmental impact for ourselves and our customers. Our certification to ISO 14001 demonstrates our commitment for achieving legal and regulatory compliance to regulators and government. Focussing on best environmental outcomes.



EXPERIENCED STAFF



Our knowledge and experience set us apart from our competitors. We pride ourselves on having the most experienced and capable team who service our customers whilst drawing from decades of experience. Together, with our wide-ranging service offering, we can be confident that we will deliver the best quality of services.

METAL TREATMENT

USING A RANGE OF TECHNIQUES WE ARE ABLE TO OFFER OUR CUSTOMERS A **FIT FOR PURPOSE, COST EFFECTIVE SOLUTION** FOR THE TREATMENT OF **RADIOACTIVE METAL WASTES**



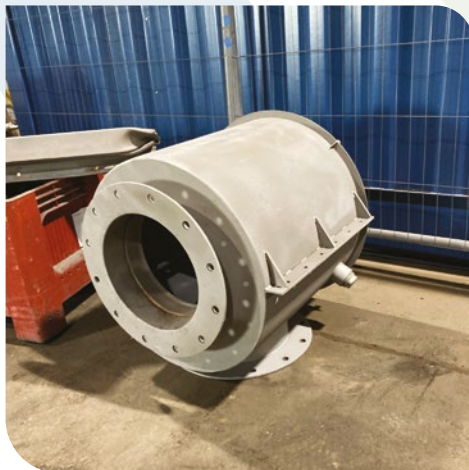
WHY CHOOSE US?

Metal is a valuable resource and should be recycled wherever possible.

Recycling 1 tonne of steel saves around 1.5 tonnes of CO₂.

Augean has been decontaminating and recycling metal from the nuclear industry since 2019.

Generally the radioactive contamination is found within the paint, rust layers or upper surface of the metal. By removing these surfaces we can remove the contamination and then recycle the metal.



SERVICES & PROCESSES WE PROVIDE

- + Surface decontamination using Ultra-High Pressure (UHP) water jetting and/or grit blasting
- + Cable stripping and copper recycling
- + Recycling of metal waste as out of scope
- + Size reduction and segregation of non-recyclable materials

OUR STRENGTHS

Augean uses grit blasting and UHP water jetting to remove the contamination.

By using a range of techniques we are able to offer our customers a fit for purpose, cost effective solution.

Once treated, the metal is sampled and monitored before being recycled in line with the Waste Hierarchy.

CUSTOMER BENEFITS

- + Our new, larger grit blast booth can handle big items such as redundant tanks, ductwork sections, HHISO containers and gloveboxes
- + Our flexible approach means less preparatory work for the customer on their site
- + Reduced volumes of waste destined for disposal
- + Secondary waste treated and disposed - no waste returned to the customer
- + Customers have realised efficiencies by working with Augean as we can accept LLW with other hazardous properties, e.g. asbestos and acids
- + We provide industry leading, cost effective solutions for all metallic wastes



AUGEAN'S RADIOACTIVE WASTE SERVICES (RWS):

Over 2,200 tonnes of metal has been treated

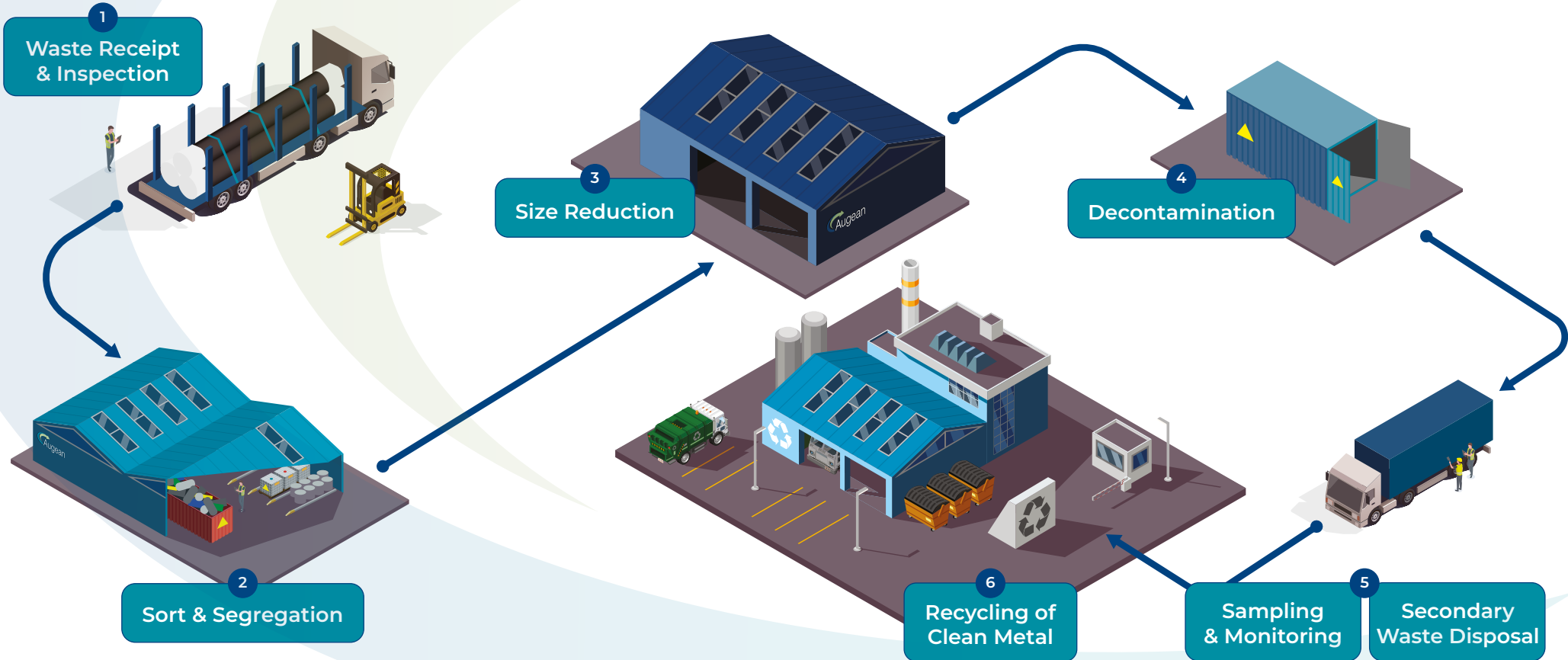
84% of metal treated has been recycled

30+ tonnes of copper from old cables stripped and recycled

Over 450 Half-Height ISO containers of waste accepted for sort and segregation

70,000+ tonnes of Low Level Waste (LLW) accepted for disposal since operations began

OUR METAL TREATMENT PROCESS



WE OFFER **WASTE MANAGEMENT SOLUTIONS** THAT SUPPORT OUR CUSTOMERS IN COMPLYING WITH **THE WASTE HIERARCHY**

LLW TREATMENT



- + All metal types (mild steel, stainless steel, galvanised steel, aluminium, lead, copper, brass, depleted uranium, etc.) accepted for decontamination and recycling
- + Cables for stripping and copper recycling
- + All material types (wood, metal, plastic, soft waste, redundant batteries, used electronic items, etc.) can be received and segregated to the most appropriate treatment route
- + Solid, aqueous liquid and organic liquid
- + Individual items up to 25 tonnes
- + Containerised and unpackaged wastes

OUR STRENGTHS

- + A flexible approach using a range of metal treatment techniques
- + We accept both hazardous solid and liquid waste
- + Very large secure permitted area for waste storage

CUSTOMER BENEFITS

- + All waste types accepted and no need for the customer to segregate the waste first
- + All waste packages accepted
- + Waste routes available for all types of LLW

Augean collaborates with Veolia for a flexible approach to dealing with Sellafield's combustible waste

CLIENT: VEOLIA ES UK LIMITED



Aerial view of Augean's Waste Recovery Park with a consignment of combustible waste from Sellafield Ltd being delivered by Tyson H. Burridge

Project Name:	Sellafield Bulk Combustibles via Nuclear Waste Services Treatment & Conditioning Framework Contract
Volume:	800 m ³ average per year
Project Scope:	Sort and segregation, recycling and disposal (via High Temperature Incineration)

Project Highlights

- + Successful collaboration between Nuclear Waste Services, Sellafield, Augean and Veolia
- + Ability to flex the service, allowing Sellafield's operations to continue to run efficiently
- + Innovative approach to different waste streams, such as cables
- + Diversion from disposal at the Low Level Waste Repository

“ *Augean is a trusted and reliable sub-contractor to Veolia on the Sellafield Bulk Waste contract. They consistently provide high levels of service and are always looking for ways to improve in terms of efficiency, safety and environmental performance.* ”

Business Development Lead - Radioactive Waste, Veolia ES UK Limited

PROJECT OVERVIEW

Since 2021, Augean has collaborated with Veolia to service Sellafield Ltd for the thermal treatment of their loose bulk combustible waste. Sellafield generates large volumes of combustible waste packaged into Half-Height ISO (HHISO) containers, which need to be consigned off site quickly due to limited space. Augean size reduces and repackages the waste at the Waste Recovery Park before onward consignment to Veolia's High Temperature Incinerator (HTI) at Ellesmere Port.

Augean and Veolia have flexed the service in line with Sellafield's requirements, receiving high numbers of consignments with no interruptions to the service and handling alternative packaging and delivery methods.

Over 100 HHISO containers of low-level contaminated radioactive waste are processed each year, as well as Roll On Roll Off skips and Full-Height ISO containers. In line with the Waste Hierarchy and Best Available Techniques, Augean supported the client by offering cable stripping, which enables valuable copper to be recycled, and disposal of any non-incinerable components in the waste.



A Half-Height ISO container being offloaded from transit

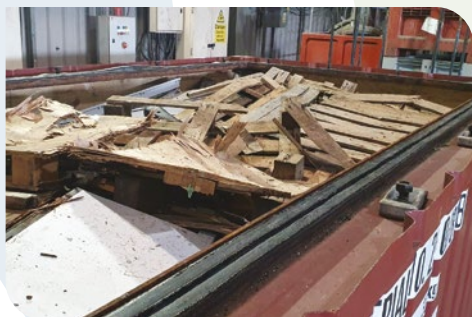


SORT & SEGREGATION

WHY CHOOSE US?

Augean has received over 300 Half Height ISO containers (HHISO) of mixed waste for Sort and Segregation since 2020. These HHISO contained a mixture of incinerable waste, metal for treatment, cables for stripping and waste for disposal.

All waste is segregated and repackaged prior to being consolidated with other similar wastes, and consigned to the appropriate final treatment or disposal site.



OUR STRENGTHS

Augean's flexibility and responsiveness are our two key strengths. Our facility is capable of deploying new techniques for the treatment of unique waste streams safely and compliantly.

Our experience of working in other high hazard waste sectors can be used to quickly deploy techniques used elsewhere to the treatment of LLW.

CUSTOMER BENEFITS

- + Customers have realised significant time and cost savings due to not having to segregate their wastes
- + Augean's broad permit allows customers to send multiple different types of waste under one contract
- + Augean has developed innovative new techniques allowing recycling of wastes that would have previously been routed for disposal
- + Customers have saved more time and effort working with Augean as we are able to offer a solution for all their differing wastes

LA-LLW DISPOSAL



OUR LLW SERVICES

Augean operates the East Northants Resource Management Facility (ENRMF) which is permitted to dispose of solid Low Level Waste (LLW) up to 1000 Bq/g.

Each year we safely dispose between 5,000 and 12,000 tonnes of LLW, mainly from the decommissioning of the UK's nuclear reactors.

The material is predominantly contaminated building materials and soils that cannot be reused, recycled or recovered.

OUR STRENGTHS

- + Augean's ENRMF disposal site allows waste to be diverted from the national Low Level Waste Repository, conserving capacity for higher activity wastes
- + Accept both hazardous and non-hazardous waste as defined in WM3
- + Maximum package activity up to 1000 Bq/g
- + Average activity up to 200 Bq/g
- + Large items up to 60 tonnes can be disposed

SPECIALIST INDUSTRIAL SERVICES



WHY CHOOSE US?

Some customers do not generate significant volumes of radioactive waste or they may not have the necessary resources available for packing and processing waste.

In these cases, Augean can offer added value by deploying a team of trained operatives onto the customer's site to perform these enabling actions and ensure the waste is suitable for onward transport and treatment.



OUR STRENGTHS

- + Work compliant with Ionising Radiation Regulations 2017
- + Augean appointed Radiation Protection Supervisors
- + Experienced in handling all types of LLW
- + IP-1/IP-2 packages and Class 7 transport included
- + All secondary waste removed and disposed



ESG

AUGEAN IS COMMITTED TO MEETING ITS ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG) OBLIGATIONS

Since the company's inception, Augean has followed best practices in environmental stewardship, social responsibility, and corporate governance as well as the continuous development of ESG standards, which is an integral part of the company's growth.

Our company values, policies and management systems reflect this. Since 2005, we have produced an annual Corporate Sustainability Report (CSR), in which our ethos and operating practices are explained and our performance against selected criteria is disclosed.

ENVIRONMENTAL criteria consider how a company performs as a steward of nature, and Augean recognises the important role it plays in the environment and communities within which it operates.

SOCIAL criteria examine how we manage relationships with employees, suppliers, customers and the communities where we operate. The health, safety and wellbeing of our employees, compliance with regulations and acting as a good neighbour by minimising the impact of our operations on the wider community, are continuing business priorities.

GOVERNANCE deals with a company's pay, audits, internal controls and shareholder rights. Maintaining the highest standards of governance is integral to the effective delivery of our strategy. It ensures that the Board take decisions that create sustainable long-term value for the mutual benefit of our customers, the communities we serve, our employees and shareholders.



OUR TESTIMONIALS

“ It's a pleasure to work with Augean, a company that make business **uncomplicated**. Staff are **easy to communicate with**, always available as well as being **extremely knowledgeable**. A glass is always half full approach! **10 out of 10** from us. ”

- Director, Smartlift Bulk Packaging

“ The staff are extremely helpful and go over and above to help our customers. ”

- Customer Portfolio & Relationship Manager, Nuclear Waste Services

“ NWS delivers a metallic waste treatment service via a network of suppliers who are **instrumental** in diverting this waste away from the LLW Repository whilst **maximising recycling**. NWS currently only needs to use the vault for around 2% of the low-level waste produced each year. This transformation from historical levels of 95% is a **major success**, achieved by **collaborating** with our supply chain partners who provide **world-class solutions**. ”

- Treatment & Conditioning Service Lead, Nuclear Waste Services

“ The team were very welcoming and very competent. I got a lot out of this experience which will help me personally, but all the work I did also benefits NWS and they will be looking forward to hearing about my experiences. This is definitely worth doing again and continuing this knowledge-share as it will only benefit both sides in the long run. ”

- Technical Graduate at Nuclear Waste Services, following a secondment to Augean

“ The sort & segregation service to fit Veolia's Waste Acceptance Criteria (WAC) specification and/or utilising the landfill option that Augean can provide **offers a disposal option** which doesn't fit any of the single standard service options. This has been **invaluable** in diverting materials from the Repository and Nuclear Waste Services are **looking to expand this service** across the wider business sector. ”

- Radioactive Waste Management Specialist, Veolia ES UK Limited

“ Under the NWS framework, Augean provided a **bespoke service** to achieve a recycling rate of **over 99%** of metallic Offsite Discharge Pipework from the Harwell Site, through an approach already established in the oil and gas industry. By transferring the technology to the nuclear decommissioning sector, this **reduced volumes of radioactive waste** which would have otherwise been destined for landfill and **established new waste routes** for similar future projects in the nuclear industry. ”

- Head of Waste, Magnox Ltd

THE SECTORS WE SERVICE



Defence



Infrastructure & Construction



Nuclear & Radioactive



Oil & Gas



Processing & Manufacturing



Renewable Energy



Utilities



CORPORATE MEMBERS OF



MORE SERVICES FROM AUGEAN

- + [Oil & Gas Waste Services](#)
- + [Specialist Industrial Services](#)
- + [Specialist Waste Containers](#)
- + [Treatment & Disposal Services](#)
- + [Treatment & Transfer Services](#)



0333 034 9004 | sales@augean.co.uk | www.augean.co.uk

4 Rudgate Court, Walton, Nr Wetherby, West Yorkshire, LS23 7BF

