

News story: Magnox Ltd complete FED treatment programme at Bradwell in Essex

This is an important step towards the site's planned closure, as part of the NDA's mission to clean up and decommission the UK's earliest nuclear sites.

Magnox Ltd and its supply chain used innovative techniques and unique solutions to manage the waste, which mainly consists of pieces of the magnesium alloy cladding that surrounds Magnox nuclear fuel. They dissolved the material in acid and explored new options for disposing of the waste. The result is a reduction in the hazards on the site and shortening the FED treatment project by more than a year.

Nuclear Decommissioning Authority (NDA) Chief Executive, David Peattie, said:

This is another really important milestone and a huge step forward in cleaning up and decommissioning the UK's earliest nuclear sites.

Finding new solutions and techniques to deal with radioactive waste is helping us to do things more quickly and efficiently, making our sites safer sooner and providing best value for the taxpayer. I would like to thank everyone involved in delivering this successful programme.

65 tonnes of FED were treated in an on-site 'dissolution plant', which dissolved the waste in an acid, separated the radioactive materials and reduced the volume of the solid waste by more than 90 per cent.

Over half of the FED at Bradwell was re-classified as suitable for disposal as Low Level Waste (LLW) in a first-of-a-kind collaboration between Magnox Ltd, the Low Level Waste Repository Ltd (LLWR) and specialist contractor Tradebe-Inutec.

More than 140 tonnes of FED have now been sent to Tradebe-Inutec as LLW for treatment and eventual disposal at the Low Level Waste Repository in west Cumbria – saving around 2 years of dissolution operations.



Fuel Element Debris (FED)

Bob Nichols, Magnox Ltd's Bradwell Site Closure Director, said:

I want to pay tribute to the Bradwell and wider Magnox workforce who have worked tirelessly to manage Bradwell's FED inventory, which has proved to be one of the most challenging work programmes undertaken by Magnox.

We have shown we are able to work collaboratively, both with our supply chain and other parts of the Nuclear Decommissioning Authority estate, to accelerate progress without compromising our high safety standards, which stands us in good stead as the site approaches Care and Maintenance.

A second major achievement at the site is the demolition of the used fuel ponds complex – which was used to cool and store spent nuclear fuel under water after it was taken out of the reactors when the site was generating electricity.

The redundant buildings were decontaminated over a 4 year period, which meant they could be taken down using conventional demolition methods. The remaining buildings on the site will now be enclosed in weatherproof cladding in preparation for Care and Maintenance.

[Find out more about Bradwell nuclear site](#)

[Policy paper: Calstock flood defence improvement scheme](#)

Updated: Latest update section added, with feedback from the November drop in sessions.

The existing flood embankment provides an important role in reducing flood risk in Calstock, but surveys have shown it is in a poor condition. Therefore, the Environment Agency is exploring options to develop an affordable scheme to continue the standard of flood protection to properties within Calstock.

[Press release: Showcasing our cool kit at London Rivers Week](#)

On Tuesday 27 June from 12pm to 3pm at Walthamstow Marshes, near Springfield Marina, the Environment Agency will be showcasing their cool kit and little critters as part of London Rivers Week.

London Rivers Week is running again this year with Catchment Partnerships and environmental organisations such as Thames21, ZSL, London Wildlife Trust, the Environment Agency and the South East Rivers Trust, putting on public events, walks and talks at special river sites.

Amanda MacLean, Catchment Co-ordinator at the Environment Agency, said:

We are very excited to be showcasing our work at the London Rivers Week this year on the 27 June. Over the last 20 years the Environment Agency has made big steps to improve the quality of water in rivers. Please do come along to find out about the wide variety of ways in which we work to create a better place for people and the environment. We're bringing lots of our cool kit for you to see.

The Environment Agency will have demonstrations of flood risk management equipment, including their:

- weed cutting boat

- flood water pumps and aerators (in and by the river)
- incident response vehicle, and
- temporary flood barrier.

Members of the public can talk to staff and find out about the following activities:

- monitoring the health of our rivers; trays of invertebrates will be on display
- invasive species
- pollution incidents
- flood risk management; including how we work with communities to reduce flood risk, and
- general information about our other activities and work with partners such as LVRPA (Lee Valley Regional Park Authority).

Other exciting events the Environment Agency is running during London Rivers Week include:

- 4pm to 6pm Monday 26 June at Watling Park, Burnt Oak, HA8 0RF at the northern entrance off Abbots Road.
- 12pm on Tuesday 27 June at the Strand on Kew Green.
- 11:30am on Wednesday 28 June at the River Wandle, Merton High Street, Colliers Wood.

More details and a full list of events can be found on the [official website](#).

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[Press release: Wiltshire man handed suspended prison sentence for running illegal waste activity](#)

Mr. Robert Cooper, 78, of Hicks Leaze Farm, Chelworth appeared at Swindon Magistrates Court on Monday 5 June 2017 for operating a regulated waste facility without the necessary environmental permit (contrary to regulations 12 (1)(a) and 38 of the Environmental Permitting Regulations 2010) at the Farm between 9 April 2014 and 10 July 2014.

The defendant had pleaded guilty at an earlier hearing on 15 May but the case was adjourned for a pre-sentence report due to the facts of the case and his previous waste offences.

Mr Cooper was given a 12 week prison sentence, suspended for 2 years and ordered to perform 200 hours of unpaid work. The court also ordered Mr Cooper to pay the Environment Agency's full costs of £13,027.35

Mr Howard McCann prosecuting, told the court how the Environment Agency started investigations following complaints from members of the public about the burning of material in December 2013, and the sheer number of lorries dumping waste on site from April 2014 onwards.

Environment Agency officers visited the site and witnessed large quantities of waste including 4 large mounds of construction and demolition (C&D) waste, the largest of which was measured at approximately 65 metres long, 7 metres high in places and between 5 to 7 metres wide. Officers estimate a total of about 8,285 cubic metres of waste on site. The farm is about the size of 9 football pitches. Mr Cooper allowed people to tip their mixed waste for up to £40 per load, treated it by sorting the materials and then burning some of it.

Mr Cooper charged people between £10 (green waste) and £40 per 20-tonne load (C&D waste). Given the main waste mounds discovered by officers, they calculated that Mr Cooper could have made more than £23,000 from his illegal activities. The court found that Mr Cooper's actions were deliberate and that the environmental harm was localised due to the presence of plasterboard, chemical drums and leachate seen on site. The justices also found that the offending was repeated and for financial gain. The court gave Mr Cooper credit for his early guilty plea and co-operation with the Environment Agency throughout its investigation.

Checks with the Environment Agency's public register confirmed that he did not have a permit for the site, and although he did have 6 waste exemptions, none of these would have allowed him to carry out the types of activities seen by officers.

All waste activities are regulated by the Environment Agency. Whenever waste is stored or treated, the operator is required to hold an environmental permit or register for an exemption, which is reserved for low-risk waste activities only.

During site visits, Environment Agency officers observed the burning of waste with discarded empty containers labelled as "dangerous to the environment". One officer experienced a strong acrid smell which made him feel so unwell that he had to use a protective dust mask. The officers saw what appeared to be leachate puddles in and around the burning waste and plasterboard, which cannot be disposed of to landfill with other biodegradable waste as it can produce toxic hydrogen sulphide gas.

Steve Clare of the Environment Agency said:

It is very disappointing that Mr Cooper continued to allow the operation of an illegal site despite his previous convictions.

The net is closing in on people who think they can make easy money undercutting legitimate waste businesses by putting the local environment at risk. We are constantly gathering information on illegal waste sites, criminal activities and environmental crime in Wiltshire and across the south east.

We are taking a zero tolerance approach against offenders. In cases like this where individuals consistently operate illegally, we have absolutely no hesitation in prosecuting them, as we want to make sure that waste crime doesn't pay.

This extends to landowners, and their agents, who fail to take steps to prevent such offences once they are made aware of them.

For all media enquiries, please call 0800 141 2743.