

## Consultation outcome: Water quality: updating the public and private drinking water regulations

*Updated:* Summary of responses added.

We want to know what you think about our plans to update the Water Supply (Water Quality) Regulations 2016 ('public regulations') and the Private Water Supplies (England) Regulations 2016 ('private regulations'). These changes will only apply to England.

The changes will bring the regulations in line with the [Drinking Water Directive](#). The Drinking Water Directive was updated to reflect World Health Organisation principles for the risk based sampling and analysis of drinking water supply.

We'll also be updating the public regulations for when a sample must be taken from a tanker and making retail licensees prepare and maintain further documentation.

The private regulations will also make changes to the limits on charging and will allow local authorities to restore a water supply.

Both regulations will also clarify certain aspects of the 2016 Regulations, such as definitions of terms used.

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## News story: Free at last as jammed fuel is lifted out

*Updated:* Updated the link to the longer version of the video

When the dome-shaped experimental reactor closed in 1977, most of the core fuel was removed.

But follow-up work came to a halt when some of the metallic casings in the zone surrounding the core were found to be swollen and jammed. Almost 1,000 – around two-thirds of the total – were left in place.

Made of stainless steel, the casings, known as breeder elements, contained natural uranium and were designed to produce more fuel for use in other reactors.

Now, after many years of work to design and test remotely operated equipment, a decommissioning team has started to recover the elements.

Decommissioning the 50-year-old reactor is one of the most technically challenging projects in the NDA estate and removing the breeder elements has been a top priority.

The removal work is expected to take less than 3 years, after which dismantling of the landmark reactor can begin.

David Peattie, NDA Chief Executive, said:

Dealing with this material is one of the highest priorities anywhere for the NDA, not just at Dounreay but across our UK sites. The safe and timely retrieval of the breeder material is crucial to both the site's closure programme and the national defueling programme.

I am very pleased with this achievement which is a great example of how the Dounreay team and the NDA can work together to deliver results of national importance.



MP Jamie Stone looks on as team members monitor removal of the breeder material

During a visit to the reactor, Jamie Stone, MP for Caithness, Sutherland and Easter Ross, said:

Actually watching on screen the removal of an element from the reactor core was fascinating. Seeing the intricate techniques and skills, and the special locally designed equipment being used was absolutely inspirational.

In an age when sometimes you begin to wonder where British technology is going, it is hugely encouraging to see what is being done at Dounreay. I take my hat off to the workforce.

When the damaged elements were discovered, decommissioning effectively stopped for 20 years, until the decision was taken in 2000 to close down Dounreay and the creation of the NDA a few years later gave fresh momentum to the task.

The elements were immersed in some 57 tonnes of highly reactive liquid metal which had to be removed and destroyed before remotely operated cameras could inspect the condition of the material. This difficult, hazardous programme took more than 10 years.

Now, following extensive research and development trials inside the plant and at a test rig on the outskirts of Thurso, work has started to remove the remaining breeder material.

[Watch the DFR breeder material removal process](#)

## **Dounreay Fast Reactor**

After removal, the elements are being transferred to a purpose-built facility, where they are being cut open to remove the uranium fuel, cleansed of any traces of liquid metal and packaged in containers for dispatch to Sellafield. About 40 tonnes of breeder recovered previously has already been sent there.

When all the breeder material has been removed, work can begin on taking the reactor apart.

Main support contractor: JGC Engineering & Technical Services Ltd

## **About the Dounreay Fast Reactor (DFR)**

- the DFR was built during the 1950s at a time when there was a world-wide shortage of uranium for electricity generation
- It became the world's first fast reactor to provide electricity to a national grid, providing enough power for a small town like Thurso (population approx 9,000)
- DFR's reactor core was surrounded by a blanket of natural uranium

elements that, when exposed to the effects of the radiation, would 'breed' to create a new fuel, plutonium

- UK experimentation with fast breeders came to an end in the 1980s
- decommissioning DFR is one of the most significant challenges in the UK today. It was one of only two fast reactors ever built in the UK, both at Dounreay.
- when the breeder material is all removed, the reactor and its circuits will be dismantled, followed by final decontamination of the structures
- the dome and associated structures will be demolished

### **Dounreay Site Restoration Ltd (DSRL)**

DSRL, a company owned by Cavendish Dounreay Partnership, is responsible for decommissioning the UK's former centre of fast reactor research on behalf of the NDA.

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## **Press release: Rapid multi-agency response to Derbyshire cooking oil spill**

The Environment Agency (EA) has been on site near Peakshole Water in Castleton, Derbyshire, following a spill of cooking oil in a surface water drain. Approximately twenty-five litres of used cooking oil were accidentally spilled into the drain, which leads into Peakshole Water.

After a member of the public reported the pollution, Environment Agency officers worked with Derbyshire Fire & Rescue Service to ensure a clean-up operation could get off the ground as soon as possible. Derbyshire Fire & Rescue Service was able to reach the scene of the incident quickly, which meant that the oil was prevented from spreading further down the drain towards the watercourse.

The Environment Agency soon joined their Fire and Rescue colleagues in Castleton, using booms as well as absorbent pads to contain and absorb the oil.

Castleton is a popular tourist destination in the Peak District National

Park. There have been no reports or sightings of affected wildlife and an investigation by the Environment Agency did not identify any environmental impacts.

Commenting on the joint clean-up operation, EA environment officer Paul Reeves said:

The response to the cooking oil spill incident in Derbyshire on Saturday is an excellent example of how strong partnership work can help us protect wildlife and the environment. We were able to respond quickly by combining resources with Derbyshire Fire and Rescue, thereby keeping the impact to the environment in this beautiful area within the Peak District National Park to a minimum.

This incident was reported to us by a member of the public. These reports are very valuable in helping us in our efforts to protect the environment, and we'd like to encourage anyone who observes a suspected pollution to report this to our incident hotline on 0800 80 70 60.

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## **Notice: BA4 6NX, Crockway Farms Limited: environmental permit issued**

The Environment Agency publish surrenders that they issue under the Industrial Emissions Directive (IED).

This decision includes the surrender letter and decision document for:

- Operator name: Crockway Farms Limited
- Installation name: Lambrook Pig Unit
- Permit number: EPR/YP3333NT/S004

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## **Notice: WF10 5GT, Dunhills (Pontefract) plc: environmental permit issued**

The Environment Agency publish permits that they issue under the Industrial

Emissions Directive (IED).

This decision includes the permit and decision document for:

- Operator name: Dunhills (Pontefract) plc
- Installation name: Castleford Production Facility
- Permit number: EPR/SP3938DE/A001