

Press release: Regulators approve new nuclear power station design

The UK Advanced Boiling Water Reactor (UK ABWR), designed by Hitachi-GE, is suitable for construction in the UK, the regulators confirmed today following completion of an in-depth assessment of the nuclear reactor design.

The Office for Nuclear Regulation (ONR), the Environment Agency and Natural Resources Wales, the regulators who undertake the Generic Design Assessment of new reactor designs, are satisfied that this reactor meets regulatory expectations on safety, security and environmental protection at this stage of the regulatory process.

ONR has issued a Design Acceptance Confirmation (DAC) and the environment agencies have issued a Statement of Design Acceptability (SoDA) to Hitachi-GE.

Horizon Nuclear Power is proposing to build and operate two of these reactors in Wylfa Newydd on Anglesey and Oldbury-on-Severn near Thornbury in South Gloucestershire.

Dr Jo Nettleton, Deputy Director for Radioactive Substances and Installations Regulation at the Environment Agency said:

We've concluded that the generic design of the UK ABWR should be capable of meeting the high standards of environment protection and waste management that we require in the UK. We only came to this conclusion after carefully reviewing the submissions provided by Hitachi-GE and their responses to the questions and issues we raised. We've also carefully considered all the comments we received from people during our public consultation and we're grateful for all who took part for taking time to respond.

Mark Foy, ONR's Chief Nuclear Inspector said:

The completion of the generic design assessment of the UK ABWR is a significant step in our regulation of the overall process to construct this type of reactor in the UK, ensuring that the generic design meets the highest standards of safety that we expect in this country. We're already working on our assessment of Horizon's site licence application and on the development of the site specific safety case to progress, in due course, the construction and operation of these reactors at Wylfa Newydd.

Tim Jones, Natural Resources Wales's Executive Director for North and Mid Wales, said:

It is our job to ensure that any new nuclear power station will meet high standards of environmental protection and waste management, ensuring that our communities and environment are kept safe.

Following a public consultation on our initial findings, we have concluded that the UK ABWR design is acceptable. We will now work on the detailed assessments of the permits, licences and consents that Horizon Nuclear Power will need to have in place to build Wylfa Newydd.

The regulators have documented progress of each stage of their assessment through a series of [reports](#).

ENDS

Notes to editors

1. The regulators began assessment of Hitachi-GE's UK ABWR in 2013.
2. Generic Design Assessment (GDA) is a joint process between the Office for Nuclear (ONR) Regulation, Environment Agency and Natural Resources Wales (NRW).
3. The Office for Nuclear Regulation is the nuclear safety and security regulator for the UK.
4. The [Environment Agency](#) and [Natural Resources Wales](#) are the environmental regulators of nuclear sites in England and Wales respectively.
5. Information on Generic Design Assessment on the joint regulators' [website](#)
6. All assessment reports, decision documents and a copy of the Design Acceptance Confirmation (DAC) and Statement of Design Acceptability (SoDA) are available online.
[Office for Nuclear Regulation](#)
[Environment Agency](#)
[Natural Resources Wales](#)
7. The DAC and SoDA are valid for a period of ten years from issue and can be extended subject to review and agreement of the regulators. The Statement of Design Acceptability (SoDA) is being issued jointly by the Environment Agency and Natural Resources Wales. GDA applies to both England and Wales.
8. The issuing of a DAC and SoDA does not mean that construction of a new nuclear power station can start. In addition to GDA the operator (Horizon Nuclear Power in this case) must obtain a nuclear site licence and relevant consents from ONR, environmental permits from the Environment Agency or Natural Resources Wales and planning permission (Development Consent Order) from the Department of Business, Energy and Industrial Strategy's Secretary of State.
<https://www.gov.uk/guidance/guidance-for-operators-of-new-nuclear-power-stations>
9. Horizon Nuclear Power submitted an application for a Nuclear Site

Licence to build and construct a UK ABWR power station at Wylfa Newydd to ONR in March 2017. ONR is in the process of assessing the application.

10. Horizon Nuclear Power submitted an [application to NRW for a Radioactive Substances](#) Regulation environmental permit in November 2017.
 11. For more information, please contact the ONR press office on onr@onr.gov.uk or 020 3028 0505.
 12. For the Environment Agency media team contact newsdesk@environment-agency.gov.uk or 020 3025 5623
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[Press release: Environment Agency's Christmas stocking for Berkshire anglers](#)

Updated: Photos updated.

The Environment Agency is delivering an early Christmas gift to anglers in Berkshire this week, when it carries out a Christmas stocking of young adult fish into the River Cut at Jocks Lane recreation ground in Bracknell.

Thousands of fish, including roach, dace and chub, will be added to the river's existing fish population this Thursday, 14 December. This will provide an immediate boost to numbers, which will be multiplied many times over when the new arrivals settle into their new homes and begin to produce offspring.

Stuart Keable, a fisheries officer for the Environment Agency, said:

We carry out a number of fish stockings every year. Sometimes it is to help fish populations recover when they've suffered from a pollution incident, or through flooding, which can push large numbers of fish downstream, and many never return.

The River Cut has suffered from recurrent pollution near Jocks Lane recreation ground in 2017, where uncontaminated water from a large proportion of Bracknell drains into the Cut. Environment Agency officers have been working closely with Thames Water, which manages the surface water network, to investigate the source of the pollution. The partnership has also resulted in pollution-prevention visits to nearby industrial estates, where officers advised businesses on oil and chemical storage compliance, hazardous waste disposal and the risk to streams and rivers.

Rachel Brown, an Environment Agency team leader in east Berkshire, said:

The Environment Agency has responded to a number of incidents on the River Cut this year, reported to us through our incident hotline. We have been working with Thames Water to find why the river was polluted, whilst also reducing the impact to the environment. We have carried out pollution-prevention visits at the nearby industrial estates, to raise awareness of the surface water drainage network and correct disposal of waste. Information provided by the public is vital in helping us with these ongoing investigations, and we urge anyone witnessing an environmental pollution to call our 24-hour incident hotline on 0800 80 70 60.

Christmas is a good time to introduce the fish into rivers, as it enables them to acclimatise to their new surroundings, ahead of their spawning season in the spring. Fish also play a critical role in sustaining a river's finely-balanced eco-system, so the wider natural environment will also get a festive boost.



Environment Agency vehicle with oxygenated tanks for transporting live fish.

Stuart Keable added:

The River Cut has undergone some fantastic enhancements recently. We've done a lot of that ourselves, but we increasingly work with local angling clubs, Bracknell Town Council, community groups and volunteers to get bigger and better results. The council has already installed 10 fishing platforms on the upstream section of the river at Jocks Lane, which will eventually see a wheelchair

ramp installed for disabled access to this area. These improvements were made through the Angling Trust's Angling Improvement Fund.

Through the Environment Agency's Fisheries Improvement Programme, we have started on some major habitat improvement work in the river itself. In November, we installed the first of 10 marginal berms to provide a more diverse habitat for fish, insects, birds and plants, as well as push silt out of the system. This work will be ongoing throughout the winter. The collective contribution from our various partners to the wellbeing of the river has been immense.

The fish are being brought to site in oxygenated tanks from their birthplace and home for the last 12-18 months, the Environment Agency's own Calverton Fish Farm in Nottingham. Funded through rod licence fees, Calverton produces some 450,000 coarse fish each year which are used to help the vitality and diversity of fish populations in rivers, lakes and ponds throughout England.

[Press release: Pair guilty of illegal fishing in County Durham](#)

The Environment Agency has prosecuted two County Durham men for poaching and using illegal fishing equipment.

Ian David Cook, 38, of The Grove, Consett, and Michael Fullerton, 22, of Surrey Crescent, also in Consett, were each given a 12 month conditional discharge by Newton Aycliffe Magistrates' Court on 6 December 2017 after pleading guilty to the offences. They were also each ordered to pay £420 costs.

Magistrates heard that on 30 November 2016 Environment Agency fisheries enforcement officers observed Cook and Fullerton shining torches into the upper River Browney near West Butsfield, during a targeted evening patrol.

The River Browney and its catchment is an important and improving area for migratory fish, especially sea trout. Recent improvements to aid fish passage and water quality and a robust approach to enforcement have led to an increase in returning fish but at present, stocks remain low and vulnerable.

After detaining the men they seized two torches and a landing net containing three dead sea trout, each at various stages of spawning. Under the Salmon & Freshwater Fisheries Act 1975, lights are prohibited, as are landing nets if used without an authorised rod and line. It is also illegal to fish during the close season for migratory fish.

During interview, Fullerton admitted to shining the torch into the river and using the net to take fish but denied knowing it was illegal. He also denied knowing it was illegal to take fish during the close season. This was despite him holding a rod licence at the time, which spells out when and how legal fishing can be undertaken. Cook confirmed he understood that using a lamp to either take or assist in taking fish is an offence.

Kevin Summerson of the Environment Agency said:

This was a serious poaching incident using illegal instruments that could have had a severe impact on future stocks of sea trout in the River Browney. At this time of year sea trout are returning to rivers to spawn and protecting returning fish is vital to maintaining a healthy fish population.

That's why our fisheries enforcement officers work hard to target those people flouting the law and we won't hesitate to take action.

The conditional discharge will appear on Fullerton and Cook's criminal record. If either commits another crime within the next 12 months they can be sentenced for the first offence and the new offence.

Anyone witnessing illegal fishing incidents in progress can report it directly to the Environment Agency hotline on 0800 80 70 60. Information on illegal fishing and environmental crime can also be reported anonymously to Crime stoppers on 0800 555 111.

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[Press release: Company fined £80,000 for polluting brook with hazardous chemical](#)

Firth Rixson Metals Limited has been ordered to pay a fine of £80,000 after pleading guilty to polluting a watercourse in Glossop.

The Environment Agency prosecuted the company after over 600 litres of a

solution of hydrochloric acid, caustic soda and water polluted nearby Shelf Brook.

This had a significant impact to the brook, resulting in 199 dead brown trout within a 500 metre stretch, with invertebrates also affected over two kilometres. The fins and eyes of the fish were noted to have a burnt appearance.

Member of the public reported incident

A member of the public initially reported the pollution in Shelf Brook to our Incident Hotline in April 2015.

Officers attended the area and found dead fish. Samples taken from the brook and a drain leading from the Firth Rixson Metals site into the brook were found to contain a highly alkaline liquid, made up of various metals, at elevated levels.

As part of Firth Rixson Metal's manufacturing process, an acid scrubber was used. Hydrochloric acid emissions were neutralised with caustic soda. Below the scrubber was a waste tank in a plastic containment bund.

Environment Agency launched investigation

The Environment Agency investigation identified a valve had been left open. This allowed water into the scrubber unit and the automatic dosing equipment had continued to add caustic soda. Staff failed to respond properly to alarms and a pump, which should have returned the solution, failed to activate.

This resulted in a highly alkaline solution overflowing from the containment bund, which entered the nearby drain to the brook. The company had failed to cap the drain, despite recent advice from local authority inspectors.

Pollution had significant impact

In sentencing, District Judge Davison said Firth Rixson Metals Ltd had allowed a state of affairs to exist which led to the incident.

Mark Easedale, Environment Manager for Greater Manchester, said:

This pollution incident had a significant impact on Shelf Brook, killing brown trout, which are a key indicator species of good water quality. The sentencing sends out a very clear message to anyone whose recklessness and negligence causes serious pollution to the environment. We will not hesitate to take action against polluters.

Our staff work 24/7 to protect people and wildlife from pollution incidents and we encourage people to report such incidents to the Environment Agency's Incident Hotline on 0800 80 70 60.

Firth Rixson Metals Ltd pleaded guilty to causing a water discharge activity not under and to the extent authorised by an Environmental Permit contrary to the Environmental Permitting (England and Wales) Regulations 2010.