



Office for Nuclear Regulation (ONR) Quarterly Site Report for Wylfa Power Station

Report for period 1 April – 30 June 2017

Foreword

This report is issued as part of ONR's commitment to make information about inspection and regulatory activities relating to the above site available to the public. Reports are distributed quarterly to members for the Wylfa Site Stakeholder Group and are also available on the ONR website (<http://www.onr.org.uk/lrc/>).

Site inspectors from ONR usually attend Wylfa Site Stakeholder Group meetings and will respond to any questions raised there. Any person wishing to inquire about matters covered by this report should contact ONR.

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1 INSPECTIONS

1.1 Dates of inspection

The ONR site inspector made inspections on the following dates during the quarter:

25, 26 and 27 April 2017

5, 6, 7 and 8 June 2017

ONR site inspector also attended the Wylfa Site Stakeholder Group meeting on 22 June 2017.

2 ROUTINE MATTERS

2.1 Inspections

Inspections are undertaken as part of the process for monitoring compliance with:

- the conditions attached by ONR to the nuclear site licence granted under the Nuclear Installations Act 1965 (NIA65) (as amended);
- the Energy Act 2013
- the Health and Safety at Work Act 1974 (HSWA74); and
- regulations made under HSWA74, for example the Ionising Radiations Regulations 1999 (IRR99) and the Management of Health and Safety at Work Regulations 1999 (MHSWR99).

The inspections entail monitoring licensee's actions on the site in relation to incidents, operations, maintenance, projects, modifications, safety case changes and any other matters that may affect safety. The licensee is required to make and implement adequate arrangements under the conditions attached to the licence in order to ensure legal compliance. Inspections seek to judge both the adequacy of these arrangements and their implementation.

In this period, routine inspections of (site/station) covered the following:

- management of operations including control and supervision;
- modifications to plant, equipment and safety cases;
- radioactive waste management
- decommissioning;

In general, ONR judged the arrangements made and implemented by the site in response to safety requirements to be adequate in the areas inspected. However, where improvements were considered necessary, the licensee made satisfactory commitments to address the issues, and the site inspector will monitor progress during future visits. Where necessary, ONR will take formal regulatory enforcement action to ensure that appropriate remedial measures are implemented to reasonably practicable timescales.

Dry Store Cell 4 (DSC4) – Intermediate Level Waste (ILW) Recovery

Magnox Ltd is undertaking a programme of work to retrieve remaining ILW from Dry Store Cell 4 into waste packages which are suitable for long-term storage.

The programme is well developed. The retrieval equipment is being installed and a programme of testing and active commissioning is due to commence. This programme of work has taken longer than originally expected following an increase in the scope of work to ensure successful implementation and operation of the equipment.

ONR has continued to engage closely with the project and has held meetings to discuss progress and to close out remaining technical issues. ONR is expecting to conduct a

readiness inspection in September 2017 to ensure that Magnox Ltd has satisfied itself that the project can proceed safely.

3 NON-ROUTINE MATTERS

Licensees are required to have arrangements to respond to non-routine matters and events. ONR inspectors judge the adequacy of the licensee’s response, including actions taken to implement any necessary improvements.

Matters and events of particular note during the period were:

Dry Store Cell 2 - Fault Resulting in slight Damage to Fuel Element Lug

During discharge of a fuel element for flasking some difficulties were encountered. Subsequent investigation identified that a valve on the discharge route had not fully opened causing an element to get very slightly damaged. The situation was addressed and the element subsequently discharged. ONR has confirmed that there were no radiological or nuclear safety implications and the event will be followed up as part of routine regulatory interactions following a full investigation by Magnox Ltd.

Potential Issues with Fire Hazard Safety Case for the Tertiary and Back up Feed Systems

A review, undertaken by Magnox Ltd, of the Consolidated Fire Safety Case for the defuelling phase has identified that additional work is required to demonstrate that the risk from fire to the provision of post fault cooling (following a loss of normal electrical supplies) is reduced so far as is reasonably practicable. This will be addressed in a safety submission, however given the long timescales which are available for responding to a fault, there is no immediate safety issue as there would be ample time to provide the necessary post fault cooling, and there are several different ways of doing so. ONR has confirmed that there were no radiological or nuclear safety implications and the event will be followed up with support from ONR Internal Hazard specialist inspectors following receipt of Magnox Ltd’s investigation report.

Reactor 2, High level of contamination found at standpipes

During a routine contamination survey of Reactor 2 standpipes, several standpipes were found to have high contamination readings. ONR has confirmed that there were no immediate radiological or nuclear safety implications and the event will be followed up as part of routine regulatory interactions following a full investigation by Magnox Ltd.

4 REGULATORY ACTIVITY

ONR may issue formal documents to ensure compliance with regulatory requirements. Under nuclear site licence conditions, ONR issues regulatory documents, which either permit an activity or require some form of action to be taken; these are usually collectively termed ‘Licence Instruments’ (LIs), but can take other forms. In addition, inspectors may issue Enforcement Notices to secure improvements to safety.

- No LIs or Enforcement Notices have been issued during the period:

Table 1
Licence Instruments and Enforcement Notices Issued by ONR during this period

Date	Type	Ref No	Description

5 NEWS FROM ONR

ONR Chair awarded CBE

In the Queen's Birthday Honours announced in June, Chair of the Office for Nuclear Regulation, [Nick Baldwin](#), was appointed a Commander of the Order of the British Empire for services to nuclear safety and security in Britain and to the charitable sector.

Regulatory Research Report published

ONR has published its [annual regulatory research report](#) which describes the [research activities](#) we have conducted in the past year.

The report includes case studies showing how our research strategy has helped support our regulatory approach, and helps to inform the development of best practice. It can be viewed at www.onr.org.uk/research

Regulation Matters

For the latest news and updates from ONR visit the website and sign up for our ebulletin (<http://www.onr.org.uk/ebulletin/index.htm>).

6 CONTACTS

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Swyddfa dros Reoli Niwclear (ONR) Adroddiad Safle Chwaterol ar gyfer Gorsaf Bŵer Wylfa

Adroddiad ar gyfer y cyfnod 1 Ebrill - 30 Mehefin 2017

Rhagair

Cyhoeddir yr adroddiad hwn fel rhan o ymrwymiad ONR i drefnu bod gwybodaeth ynghylch gweithgareddau arolygu a rheoleiddio'n perthyn i'r hyn uchod ar gael i'r cyhoedd. Dosbarthir adroddiadau'n chwarterol i aelodau ar gyfer Grŵp Rhanddeiliaid Safle Wylfa a hefyd maent ar gael ar y wefan ONR (<http://www.onr.org.uk/lrc/>).

Fel arfer mae arolygwyr ONR yn mynychu cyfarfodydd Grŵp Rhanddeiliaid Safle Wylfa a byddant yn ymateb i unrhyw gwestiynau a godir yno. Dylai unrhyw berson sy'n dymuno gwneud ymholiadau ynghylch materion a gwmpasir gan yr adroddiad hwn gysylltu ag ONR.

TABL CYNNWYS

1	AROLYGIADAU	ERROR! BOOKMARK NOT DEFINED.
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1 AROLYGIADAU

1.1 Dyddiadau arolygu

Fe wnaeth yr arolygydd safle ONR arolygiadau ar y dyddiadau dilynol yn ystod y chwarter:

25, 26 a 27 Ebrill 2017
5, 6, 7 ac 8 Mehefin 2017

Hefyd mynychodd yr arolygydd safle ONR gyfarfod Grŵp Rhanddeiliaid Safle Wylfa ar 22 Mehefin 2017.

2 MATERION ARFEROL

2.1 Arolygiadau

Gwneir arolygiadau fel rhan o'r broses ar gyfer monitro cydymffurfiad â:

- yr amodau a atodir gan ONR i'r drwydded safle niwclear a roddwyd o dan Ddeddf Safleoedd Niwclear 1965 (NIA65) (fel y'i diwygiwyd);
- Deddf Ynni 2013
- Deddf Iechyd a Diogelwch yn y Gwaith 1974 (HSAW74); a
- rheoliadau a wnaed o dan HSAW74, er enghraifft Rheoliadau Ymbelydriadau Ïoneiddio 1999 (IRR99) a Rheoliadau Rheoli Iechyd a Diogelwch yn y Gwaith 1999 (MHSWR99).

Mae'r arolygiadau'n golygu monitro gweithredoedd y trwyddedwr ar y safle mewn cysylltiad â digwyddiadau, gweithrediadau, cynnal a chadw, prosiectau, addasiadau, newidiadau achos diogelwch ac unrhyw faterion eraill a allai effeithio ar ddiogelwch. Mae'n ofynnol i'r trwyddedai wneud a gweithredu trefniadau digonol o dan yr amodau a atodir i'r drwydded er mwyn sicrhau cydymffurfiad cyfreithiol. Mae arolygiadau'n ceisio barnu digonolrwydd y trefniadau hyn a'u gweithredu fel ei gilydd.

Yn y cyfnod hwn, roedd arolygiadau o (safle/gorsaf) yn cwmpasu'r dilynol:

- rheoli gweithrediadau gan gynnwys rheoli a goruchwyllo;
- addasiadau i offer, cyfarpar ac achosion diogelwch;
- rheoli gwastraff ymbelydrol ;
- dadgomisiynu;

Yn gyffredinol, fe wnaeth ONR farnu bod y trefniadau oedd wedi'u gwneud a'u gweithredu gan y safle mewn ymateb i ofynion diogelwch yn ddigonol yn y meysydd a arolygwyd. Fodd bynnag, lle ystyriwyd bod angen gwelliannau, fe wnaeth y trwyddedai ymrwymadau boddhaol i drafod y problemau, a bydd yr arolygydd safle'n monitro cynnydd yn ystod ymweliadau'r dyfodol. Lle bydd angen, bydd ONR yn cymryd camau gorfodi rheoleiddiol ffurfiol i sicrhau y gweithredir mesurau unioni yn ôl amserlenni rhesymol ymarferol.

Cell Storio Sych 4 (DSC4) – Adfer Gwastraff Lefel Ganolraddol (ILW)

Mae Magnox Cyf yn ymgymryd â rhaglen waith i adfer ILW sy'n weddill o Gell Storio Sych 4 i becynnu gwastraff sy'n addas ar gyfer storio hirdymor.

Mae'r rhaglen wedi'i datblygu'n dda. Mae'r offer adfer yn cael ei osod a disgwylir i raglen o brofi a chomisiynu gweithredol ddechrau. Mae'r rhaglen waith hon wedi cymryd mwy o amser nag a ddisgwylwyd yn wreiddiol ar ôl cynnydd yng nghwmpas y gwaith er mwyn sicrhau cyflwyno a gweithredu'r offer yn llwyddiannus.

Mae ONR wedi parhau i ymgysylltu'n agos â'r prosiect ac mae wedi cynnal cyfarfodydd i drafod cynnydd ac i gau materion technegol sy'n weddill. Mae ONR yn disgwyl cynnal

archwiliad parodwydd ym Medi 2017 i sicrhau bod Magnox Cyf wedi ymfodloni y gall y prosiect fynd ymlaen yn ddiogel.

3 MATERION ANARFEROL

Mae'n ofynnol i drwyddedeion gael trefniadau i ymateb i faterion a digwyddiadau anarferol. Mae arolygwyr ONR yn barnu digonolrwydd ymateb y trwyddedai, gan gynnwys camau a gymerir i weithredu unrhyw welliannau sydd eu hangen.

Y materion a digwyddiadau gwerth eu nodi yn ystod y cyfnod oedd:

Cell Storio Sych 2 – Diffyg yn arwain at Niwed mân i Lwg yr Efen Danwydd

Wrth ollwng elfen tanwydd ar gyfer fflagio, cafwyd rhai anawsterau. Nododd ymchwiliad wedyn nad oedd falf ar y llwybr gollwng wedi agor yn llawn gan achosi elfen i gael ychydig o niwed. Rhoddwyd sylw i'r sefyllfa a gollyngwyd yr elfen wedyn. Mae ONR wedi cadarnhau nad oedd unrhyw oblygiadau radiolegol neu ddiogelwch niwclear a bydd y digwyddiad yn cael ei ddilyn fel rhan o ryngweithiadau rheoleiddiol arferol yn dilyn ymchwiliad llawn gan Magnox Cyf.

Problemau Posibl gyda'r Achos Diogelwch Peryglon Tân ar gyfer y Systemau Trydyddol a Bwydo Wrth Gefn

Mae adolygiad, a gynhaliwyd gan Magnox Cyf, o'r Achos Diogelwch Tân Cyfunol ar gyfer y cam dadlenwi wedi nodi bod angen gwaith ychwanegol i arddangos bod y risg o dân i'r ddarpariaeth o oeri ar ôl diffyg (yn dilyn colli cyflenwadau trydanol arferol) yn cael ei lleihau cyn belled ag y bo'n rhesymol ymarferol. Ymdrinnir â hyn mewn cyflwyniad diogelwch, ond o ystyried yr amserlenni hir sydd ar gael ar gyfer ymateb i ddiffyg, nid oes unrhyw broblem ddiogelwch uniongyrchol oherwydd byddai digon o amser i ddarparu'r oeri angenrheidiol wedi'r diffyg, ac mae sawl ffordd wahanol o wneud hynny. Mae ONR wedi cadarnhau nad oedd unrhyw oblygiadau diogelwch radiolegol neu niwclear a bydd y digwyddiad yn cael ei ddilyn â chefnogaeth arolygwyr arbenigol Perygl Mewnol ONR ar ôl derbyn adroddiad ymchwilio Magnox Cyf.

Adweithydd 2, Canfuwyd lefel uchel o halogiad mewn safbibellau

Yn ystod arolwg arferol o halogiad o safbibellau Adweithydd 2, canfuwyd bod gan sawl safbibell ddarlleniadau halogiad uchel. Mae ONR wedi cadarnhau nad oedd unrhyw oblygiadau diogelwch radiolegol neu niwclear uniongyrchol a bydd y digwyddiad yn cael ei ddilyn fel rhan o ryngweithiadau rheoleiddiol arferol yn dilyn ymchwiliad llawn gan Magnox Cyf.

4 GWEITHGARWCH RHEOLEIDDIOL

Gall ONR gyhoeddi dogfennau ffurfiol i sicrhau cydymffurfiad â gofynion rheoleiddiol. O dan amodau trwydded safle niwclear, mae ONR yn cyhoeddi dogfennau rheoleiddiol, sydd naill ai'n caniatáu gweithgaredd neu'n mynnu bod rhyw fath o gamau'n cael eu cymryd; fel arfer gelwir y rhain gyda'i gilydd yn 'Offerynnau Trwydded' (LLs), ond gallant ymddangos ar ffurfiau eraill. Ar ben hynny, gall arolygwyr gyhoeddi Hysbysiadau Gorfodi i sicrhau gwelliannau i ddiogelwch.

- Ni chyhoeddwyd LLs na Hysbysiadau Gorfodi yn ystod y cyfnod:

Tabl 1
Offerynnau Trwydded a Hysbysiadau Gorfodi a Gyhoeddwyd gan ONR yn ystod y cyfnod hwn

Dyddiad	Math	Cyfeirnod	Disgrifiad

5 NEWYDDION GAN ONR

Cadeirydd ONR yn cael CBE

Yn Anrhydeddau Pen-blwydd y Frenhines a gyhoeddwyd ym mis Mehefin, penodwyd Cadeirydd y Swyddfa dros Reoli Niwclear, [Nick Baldwin](#), yn Gomander Urdd yr Ymerodraeth Brydeinig am wasanaethau i ddiogelwch niwclear a diogeledd ym Mhrydain ac i'r sector elusennol.

Adroddiad Ymchwil Reoleiddiol Wedi'i Gyhoeddi

Mae ONR wedi cyhoeddi ei [adroddiad ymchwil reoleiddio blynyddol](#) sy'n disgrifio'r [gweithgareddau ymchwil](#) rydym wedi'u cynnal yn ystod y flwyddyn ddiwethaf.

Mae'r adroddiad yn cynnwys astudiaethau achos sy'n dangos sut mae ein strategaeth ymchwil wedi helpu i gefnogi ein dull rheoleiddiol, ac mae'n helpu i lywio'r datblygiad o arfer gorau. Gellir ei weld yn www.onr.org.uk/research

Materion Rheoleiddio

Am y newyddion a'r diweddariadau diweddaraf gan ONR ewch i'r wefan a chofrestru ar gyfer ein e-fwletin (<http://www.onr.org.uk/ebulletin/index.htm>).

6 CYSYLLTIADAU

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Cyhoeddir y ddogfen hon gan y Swyddfa dros Reoli Niwclear (ONR). I gael rhagor o wybodaeth am ONR, neu i adrodd am anghysondebau neu anghywirdebau yn y cyhoeddiad hwn, ewch i <http://www.onr.org.uk/feedback.htm>.

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Os dymunwch aildefnyddio'r wybodaeth hon ewch i www.onr.org.uk/copyright.htm am fanylion.
Cyhoeddwyd 08/17

Ar gyfer dogfennau cyhoeddedig, mae'r copi electronig ar y wefan ONR yn aros fel y fersiwn mwyaf cyfredol sydd ar gael i'r cyhoedd ac mae copïo neu argraffu'n golygu nad yw'r ddogfen hon wedi'i rheoli.