



Closure Director's Report Dungeness A Site

January 2017



Round-up from the Closure Director

Magnox has launched a companywide safety initiative: 'Target Zero' which aims to achieve zero accidents, zero incidents and zero harm to the workforce, the site has been actively promoting monthly themed campaigns including Health, Driving Safety and Emergency Arrangements.



Magnox continues to support local socio-economic projects. Details on how to apply for funding are at the end of this report.

The **Ponds Programme** has progressed well, with over 120 underwater entries. The size reduction and packaging of 19 Intermediate Level Waste (ILW) skips was completed on 19 November 2016 with the skip pieces placed in baskets ready for export from the pond in the New Year.

Plant & Structures projects include the continued Boiler House bulk asbestos removal, electrical system reduction and rationalisation and Site Separation, a design is being finalised to provide power to the street lights previously powered by EDF. The town's water main that linked to EDF has now been isolated on the EDF Site.

The **Waste Projects** work is on the site's critical path to meeting the major decommissioning milestone of having processed and packed all the Intermediate Level Waste (ILW). Progress is being made on each of our projects Resin Retrieval, Conditioning, Sludge, Sand and Gravel Retrieval, Miscellaneous Contaminated Items, Buffer Store and Transport Equipment.

Following the significantly improved performance of the FED plant at Bradwell, a decision has been made to continue to dissolve all Bradwell Fuel Element Debris at Bradwell. The site will continue to cycle the MXD plant until such time that we are assured of success at Bradwell for dissolving all the remaining FED.

A handwritten signature in blue ink, appearing to read 'P. Wilkinson'.

Paul Wilkinson
Closure Director

1. SAFETY

SAFETY

In line with the company values and safety improvement plan to deliver a 'Target Zero' approach to safety, the site has been actively promoting monthly themed campaigns including Health, Driving Safety and Emergency Arrangements.

Project Safety Reviews and Task Observations remain robust in playing an important role in a good safety performance through project and functional work streams. The reporting of events remains strong with examples of good practices being recorded and the learning shared.

An independent review of the safety culture on site was conducted to health check that the safety values of the management match that of the workforce. The report concluded that some improvement actions at management level were required and these are being tracked for completion.

Plant degradation remains to be one of the most significant hazards at Dungeness, accounting for 25% of all events raised. This is continually challenging for the safe delivery of project works.

RADIOLOGICAL PROTECTION AND ENVIRONMENT

Radiation doses remain as low as reasonably practical and below dose limits. The total dose received by all persons on site is 75% of that estimated up to the end of November 2016, reflecting good performance by all working parties.

A decision has been made to continue to dissolve all Bradwell Fuel Element Debris at Bradwell. The performance of the plant at Bradwell has significantly improved over the past few months and this is the main reason for this decision. The Dungeness MXD plant will remain a mitigation measure should some unforeseen event impacts on dissolution at Bradwell. The site will continue to cycle the MXD plant until such time that we are assured of success at Bradwell for dissolving all the remaining FED.

The new sewage treatment plant is now operational and is performing well.

The Site continues to drive improvements in environmental compliance activities via the Environmental Action Plan. The Site is on target to deliver all improvements by the end of March 2017.

EMERGENCY SCHEME

Dungeness A has held six exercises since October 2016. Of which, five were safety exercises (including the assurance team assessment) and involved only the working party and a limited number of responders in line with the sites contingency arrangements. There was also the security assurance team assessment exercise, which practiced elements from the counter terrorism plan for a 'protestors on Site' event. Both assessments were deemed adequate.

A number of further security and safety exercises are planned for 2017.

2. SITE AND PROJECT NEWS

PONDS PROGRAMME

Decommissioning utilising divers in reactor two pond has continued with over 120 underwater entries. The size reduction and packaging of 19 Intermediate Level Waste (ILW) skips was completed on 19 November 2016 with the skip pieces placed in baskets ready for export from the pond in the New Year.

Size reduced ILW skips will be temporarily stored dry in approved waste containers in a shielded storage area before shipment to Hinkley Point A Site for encapsulation in Reinforced Concrete Boxes (RCBs).

Divers have moved onto de-planting underwater Low Level Waste (LLW) furniture including the three steel gates which segregated bays of the pond and redundant fuel handling equipment. Debris and sludge is being collected from the floor areas of the pond. The debris (activated components and contaminated items) and sludge will be packaged and conditioned on site before transporting to Bradwell for interim storage.

It is anticipated that diving activities will continue in reactor two pond for a couple of weeks in January before switching over to reactor one pond.

In reactor one pond the retrieval of 71 ILW IonSiv filters was completed on 22 October 2016.

Enabling works for decommissioning and diving are at an advanced stage;

- A new electrical distribution system has been installed and energised;
- a new A-Frame crane has been installed and commissioned;
- a new building active ventilation system has been installed and commissioned;
- electrical and plant isolations are underway in readiness for divers; and
- a platform for the dive control area has been erected.



Diver loading an ILW skip base into a basket.



Removal of a 3 tonne (1 of 3) LLW steel gate from reactor two pond building

WASTE OPERATIONS PROGRAMME

The Waste Operations Programme is responsible for the management, processing, conditioning and off-site disposal of all higher and lower activity waste generated at site.

From October to the end of December the programme has processed and disposed of the following waste:

- Four contaminated metallic waste shipments have been disposed Cycliffe for metallic recycling (25te) (picture 1)
- Two contaminated combustible waste shipments have been dispatched to Tradebe for incineration (60m³) (picture 2)
- One Very Low Level Waste contaminated asbestos insulation shipment has been disposed to Sita (16m³) (picture 3)



Picture 1



Picture 2



Picture 3

- A further 30 non radiological waste shipments have been disposed of comprising of mainly asbestos and metallic/general waste

The new High Activity Waste (HAW) team is now in place and working alongside the Waste Projects Programme for function testing and inactive commissioning of the AVDS plant

The scope of work for the remainder of the financial year is as follows:

- Processing and disposal of a further three contaminated metallic waste shipments (10te)
- Processing and disposal of a further one contaminated combustible waste shipment (32m³)
- Disposal of a further 480m³ of VLLW contaminated asbestos insulation
- Involvement in inactive commissioning of AVDS Plant
- Active Commissioning of AVDS Plan

WASTE PROJECTS PROGRAMME

The Waste Projects work is on the site's critical path to meeting the major decommissioning milestone of having processed and packed all the Intermediate Level Waste (ILW). The Waste Projects team are responsible for designing, installing and commissioning all the retrieval and packaging equipment that our Waste Operations colleagues will need to use during the waste operations work described above.

The Waste Projects Team continues to grow as the workload increases with circa 35 people in the team.

The progress being made on each of our projects is described below:

Resin Retrieval – This equipment is currently in the final stages of construction and installation is in progress. Significant sections of this system are being manufactured locally by Echo Engineering in New Romney. Other items have been manufactured in Eastbourne by CeeVee Engineering Ltd. Construction is expected to be completed in late January 2017 and commissioning completed approx. 3 months later.

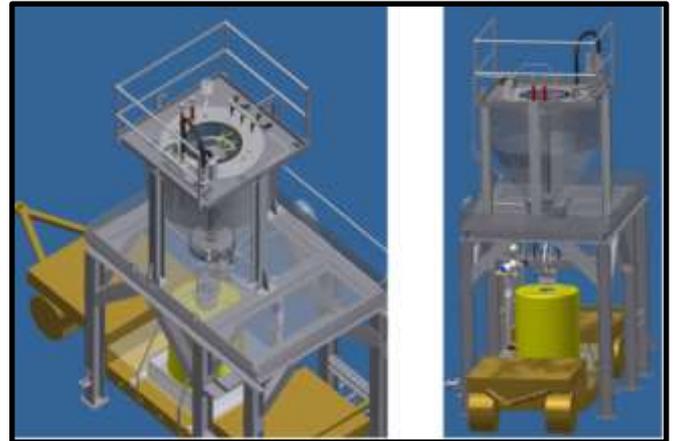
Conditioning – Installation of the conditioning (drying) equipment is substantially complete and functional testing in progress. Commissioning will be completed in January.

Sludge, Sand and Gravel Retrieval – This equipment is currently being designed, not being required until 2018.

Miscellaneous Contaminated Items (MCI) – This facility and equipment is currently being designed, not being required until later in 2017.

Buffer Store – This facility is being designed ready for use in Apr/May 2017 to buffer container stocks.

Transport Equipment – The equipment to move containers around site and deliver them to the railhead are being procured ready for use in Apr/May-17.



Resin Retrieval Equipment – Works Fabrication and 3D design pictures

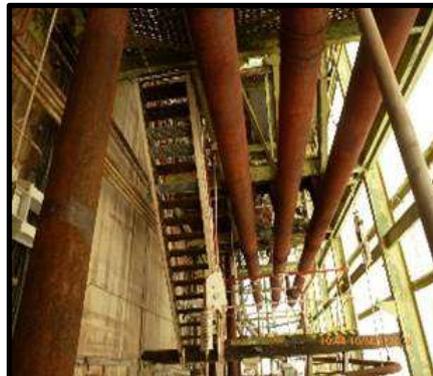


Conditioning Equipment installation works.

PLANT AND STRUCTURES

Boiler House Asbestos Removal.

The bulk asbestos removal project is progressing well with a number of work areas now stripped of asbestos (i.e. Boilers 1 & 2, 1A Boiler Annexe and the Circuit 1 & 2 Gas Duct 9 bends). This work will continue until 2019.



Electrical System Reduction & Rationalisation

Work is progressing well with the 195V AC system now completed. Reduction of the sites 415V AC supplies is in progress with the installation of two new electrical boards on the Control Face side of both Reactor Buildings and the installation of the small power clusters.

C&I Overlay

The works for the new security building is now complete with the building handed over and in use by the new security work force.

Reactor Void Water

Optioneering has now taken place on this work package with the preferred option of using the Modular Water Treatment Plant being put forward for approval.

Site Separation

A design is being finalised to provide power to the street lights previously powered by EDF. The town's water main that linked to EDF has now been isolated on the EDF Site.

Reactor Building south side external steam and feed pipework removal

All degrading external steam and feed pipework situated on the south side of the reactor building has been removed and all penetrations into the building sealed. This was the site highest hazard due to the level of degradation.

3. STAFFING

- As of 26 November 2016 there are 141.10 full time equivalent members of staff at Dungeness A. There is also an additional 22 members of staff who have a central role but are based at Dungeness A.
- There are 35 agency supplied workers and 25 individuals employed through Framework Agreements or as contract supplied workers.
- The number of contractors fluctuates according to the work being undertaken.
- 1 member of staff retired from the company with no other leavers reported between 31 August 2016 up to and including 26 November 2016.

Organisational Restructure

The main company re-organisation has concluded, however, there will be a small reduction in numbers over the next six to twelve months as the structure is reviewed.

Staff are continuing to be supported by way of organisational and trade union support, an employee assistance programme and specialist outplacement advice for those leaving the organisation.

4. COMMUNITY RELATIONS

Socio-economic spend from April to 1 January 2017

Organisation	Funding aim	Funding awarded	Description/outcome
Warehorne Village Hall	Good Neighbour	£450	School Stage Lighting with additional controllers etc.
Dymchurch & District Heritage Group	Good Neighbour	£1,000	Purchase of Heritage plaques for buildings on the trail
Marsh ink	Good Neighbour	£500	Funding towards cost of writing workshop
The IMOS Foundation	Good Neighbour	£1,000	Support for the Great tapestry of Romney Marsh
Highways at Hamstreet Kindergarten	Good Neighbour	£650	Children's Waterproofs
Sub total		£3,600	£2,400 remaining
Varne Boat Club	Sustainable Communities	£2,385	Purchase of two paddle boards and two buoyancy aids. Plus seven accredited safety and instructor training courses.
Jam on the Marsh	Sustainable Communities	£4,704	Educational workshops for local school children in music, photography and creative play.
Sub total		£7,089	
Romney Marsh Partnership Co-ordinator	Mitigation	£25,000	Final tranche of funding
New Romney Business Incubator Units	Mitigation	£8,709	Final Tranche of funding
Marsh Academy	Mitigation	£9,520	3 rd year of funding, yet to be released
Romney Marsh Partnership Group (RMPG)	Mitigation	£20kp/a (£60k over 3yrs)	RMPG co-ordinator. Post funded for 3yrs with support from Shepway District Council, Ashford Borough Council, East Sussex County Council

Shepway District Council	Mitigation	£40k	New Romney Economic Plan and Development of Mountfield Road Industrial Estate (NRTC £5k and SDC £35k)
Sub total		£103,229	
Total	6	£113,918	

Magnox's socio-economic approach

Magnox is committed to providing and enabling socio-economic support for the communities in which it operates in-line with the requirements of the Energy Act 2004 to mitigate the effects of decommissioning on the surrounding communities and develop opportunities for socio-economic development.

How to apply for funding

Go to <http://www.magnoxsites.co.uk/about-us/community/> or click on www.magnoxsocioeconomic.com to access the socio-economic web portal where you can apply for funding. Please read the funding guidelines and other documentation to assist you with your application and to make sure your project meets the required criteria.

Magnox Socio-economic Development Plan 2016-19

The Magnox Socio-economic Development Plan 2016–19 was issued in June 2016 and is available on the Magnox website [Magnox Socio-economic Plan 2016 - 19](#).

For applications up to £1,000, your contact is Sam Fox, Communications and Socio-economic Lead, South East Sites Tel: 07790803515. If you are applying for funding under Good Neighbour (up to and including £1,000), then you will only need to complete the first three questions.

Email: sam.pb.fox@magnoxsites.com

For all other enquiries your contact is: Haf Morris, Dungeness A Site Tel: 01797 343549

Email: haf.e.morris@magnoxsites.com