



Closure Director's Report Dungeness A Site

October 2016



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 and ensure we remain focussed on safety in everything we do.



The main company re-organisation has now concluded, however, there will be a small reduction in numbers over the next twelve months as the new structure is fully embedded.

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 the first divers entering reactor 2 pond last month following successful diving trials to undertake ILW skip size reduction. The current focus in reactor 1 pond is on the retrieval of 71 ILW IONSIV filters which is approaching the end of the campaign.

Plant & Structures projects include the continued Boiler House bulk asbestos removal, electrical system reduction and rationalisation and the recently completed new security building which is now in use by the new security work force.

Following further discussion with the SSG Sub Group, a further shipment of **Fuel Element Debris** (FED) is being planned for shipment to Dungeness A from Bradwell for processing through the site's MXD Plant.

A substantial discussion with the site's regulators, predominately the Environment Agency, has taken place. A number of plant improvements have been identified and will be implemented prior to dissolution taking place. An initial shipment of 72 drums of FED (3.2 Tonne) will take place to allow results of improvements to be verified by the regulators. On completion of the initial trial of 72 drums, further shipments will take place.

The majority of secondary wastes produced by dissolution will in time be treated at Dungeness before being returned to Bradwell for long term storage.

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 Asbestos and situational awareness. The Site has also issued the latest version of the Standards and Expectations booklets to all Site personnel.

During September, the Site also held a housekeeping day to boost team spirit and ensure the Site is in a presentable condition following the busy summer period. The day was deemed a success and the challenge is to keep on top of the Site's housekeeping here on in.

Project Safety Reviews and Task Observations remain robust in playing an important role in a good safety performance through project and functional work streams.

A number of events in the period that could have had potentially serious consequences have been assessed and the management has arranged to independently review the safety culture on site to health check that the safety values of the management match that of the workforce. Any findings to the contrary will have to be carefully considered with an aim to overall improvement.

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 95% of that estimated up to the end of July 2016, reflecting good performance by all working parties.

Work has commenced on the documentation required to process Bradwell Fuel Element Debris (FED) in the Magnox Dissolution Plant on the Dungeness Site. The first shipment of FED is planned to take place sometime in the next month.

Commissioning of the new package sewage treatment plant is continuing and will be operational in October.

The Environmental Management Plan, Issue 11, will be distributed to the Site Stakeholder Group and other interested parties in the next few weeks. This forms part of our consent to decommission the Site and is reissued on an annual basis.

The Site has prepared and implemented an Environmental Action Plan to drive improvements in environmental compliance activities. Actions include the addition of Environmental Engineer Review into Risk Assessment Processes and improvements to the verification process of Environment Agency Returns.

EMERGENCY SCHEME

Dungeness A has held six exercises since February 2016. Of which, two were safety exercises and involved only the working party and a limited number of responders in line with the sites contingency arrangements.

There have been four security exercises which have tested elements of our counter terrorism plan. The level one security exercise is planned for 4th October.

A number of further security and safety exercises are planned for the year along with an internal peer assist safety exercise on 15 November.

2. SITE AND PROJECT NEWS

PONDS PROGRAMME

Following the successful demonstration of decommissioning utilising divers in R2 Pond further enabling works have been implemented, including the installation of an A-Frame crane, to improve the efficiency of the process. Diving activities recommenced on 15/09/2016 and Intermediate Level Waste (ILW) skip size reduction is underway. There are 19 of these skips in R2 Pond (42 in R1 Pond) and approximately 10 tonnes of Low Level Waste (LLW) furniture in each Pond to deplant and size reduce. LLW will be disposed of at the Low Level Waste Repository in West Cumbria. Size reduced ILW skips will be temporarily stored dry in approved waste containers in a shielded storage area before shipment to Hinkley site for encapsulation in Reinforced Concrete Boxes (RCBs).

Significant enabling works are underway in R1 Pond including a new ventilation system, overwater working platform, A-Frame crane, electrical supply and distribution system. Current activities are focused on the retrieval of 71 ILW IonSiv filters which is approaching the end of the campaign. The filters are stored dry in shielded containers in shielded storage area prior to compaction and conditioning. This waste stream will be exported for eventual interim storage at Bradwell site in Ductile Cast Iron Containers (DCICs).

Diving activities are forecast to complete in R2 Pond by the end of the calendar year before mobilising in R1 Pond. R1 underwater deplanting and size reduction is expected to be completed before the end of the financial year.



R1 IonSiv Filter Retrieval



R1 IonSiv Filter Export in Shielded Drums

WASTE OPERATIONS PROGRAMME

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

Between April and September, 8 x LLW Ponds skips have been processed, loaded and disposed to INUTEC for co-disposal with around 27m³ of solid combustible low level waste sent to Tradebe for incineration. The site has also processed and disposed of around 32 non radiological waste shipments comprising of mainly metallic and general waste as well as asbestos from the insulation removal project.

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

- Processing and disposal of around 28te of LLW metallic waste for recycling.
- Processing and disposal of around 62m³ of solid LLW combustible waste for incineration.
- Disposal of 688m³ of VLLW contaminated insulation
- Complete movement of IonSiv filters to Solid ILW store
- Creation of a new High Activity Waste Team
- Active commissioning of AVDs Plant
- Active commissioning of ILW Resin retrieval equipment

WASTE PROJECTS PROGRAMME

The Waste Projects Programme is responsible for the design, installation and commissioning of the facilities and systems required to perform the retrieval and passivation of Intermediate Level Waste (ILW) at Dungeness A. The objective is to retrieve, package and condition (dry) ILW in Ductile Cast Iron Containers (DCIC) for immediate transport to an Interim Storage Facility (ISF) at the Magnox Bradwell site.

Excellent progress has been made with the installation of the ILW Conditioning Facility. The new building is now in the final stages of being fitted out with the ILW drying equipment and mechanical and electrical services. It is expected that the first ILW disposal packages could be produced as early as March 2017.

Another significant achievement has been the design and commissioning of a temporary store for IONSIV filters. The shielded storage containers and the temporary store have been designed and commissioned and the facility is operational five months ahead of the baseline programme. All (72) IONSIV filters will be in storage by the end of October 2016 and stored in this condition until they can be processed for disposal in spring 2018.

The Wet ILW characterisation campaign is now complete and the data being used to develop packaging and disposal strategies.

The detailed design phase for the Settling Tank (ST) 3 and ST4 spent resin retrieval system has been completed. Work to install the system will take place before Christmas 2016 and is expected to be ready to fill DCIC in March 2017.

The scope of waste projects portfolio for the remainder of this financial year is:

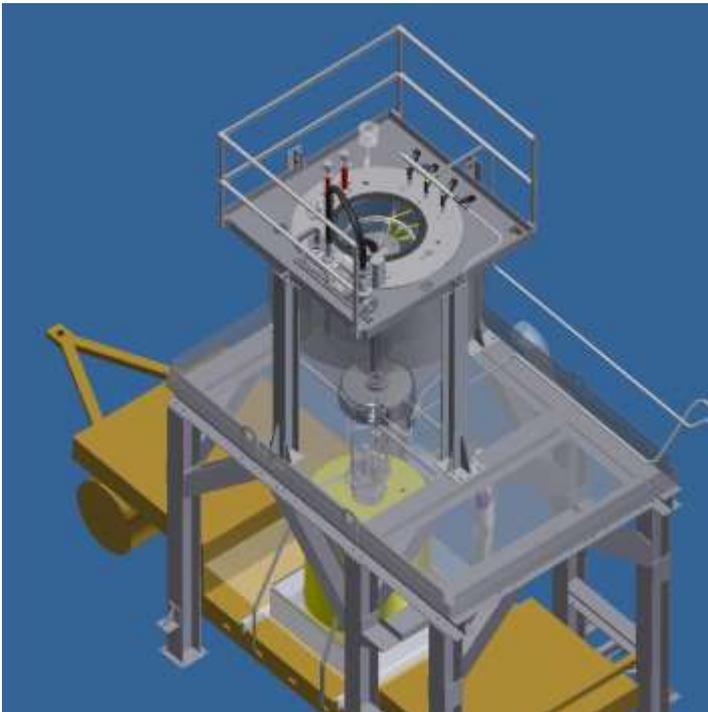
- commissioning of the ILW Conditioning system
- manufacture, installation and commissioning of the resin retrieval system
- procurement of DCIC transportation and handling equipment
- design, installation and commissioning of DCIC storage areas
- design the Miscellaneous Contaminated Items (MCI) pre-conditioning facility
- design High Dose Rate Item (HDR) storage and disposal containers



IONSIV temporary storage facility



ILW Conditioning facility



Resin retrieval (ST3/ST4) system design

PLANT AND STRUCTURES

Boiler House Asbestos Removal

The bulk asbestos removal project continues to work through the various site areas and will continue until 2019.

Electrical System Reduction & Rationalisation

Work is progressing with the electrical infrastructure for the new 195V AC system. Reduction of the sites 415V AC supplies has commenced with the installation of new electrical boards.

New Security Building

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

3. STAFFING

- As of 31 August 2016 there were 141.05 full time equivalent members of staff at Dungeness A. There were also an additional 21 members of staff who have a central role but are based at Dungeness A.
- There were 25 agency supplied workers and 24 individuals employed through Framework Agreements or as contract supplied workers.
- The number of contractors fluctuates according to the work being undertaken.
- 9 members of staff left the company on voluntary severance between 1 May 2016 up to and including 31 August 2016.

Organisational Restructure

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

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 October 2016

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
Sub total		£1,950	
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	Mitigation	£25,000	Final tranche of funding

Co-ordinator			
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
Sub total		£43,229	
Total	6	£52,268	

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
 Email: sam.pb.fox@magnoxsites.com
 For all other enquiries your contact is: Haf Morris, Dungeness A Site Tel: 01797 343549
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