



# Site Director's report Dungeness A site

October 2012 – January 2013





Firstly safety. Dungeness A has always been proud of its excellent record on safety and I am passionate about ensuring we continue to maintain a consistent high standard. I'm pleased to report that we've achieved two years without a Lost Time Accident (LTA) which is an excellent milestone for us and one we'll work hard to continue to build on.

As we head into a new year we can look back with pride on our achievements over the last twelve months. By April we had defuelled both of the reactors and sent the last of the spent fuel to Sellafield for processing, completing a five-year programme of defuelling which removed over 99% of the radioactive hazard from the site. In June the transition from a defuelling to decommissioning site was completed allowing several staff to be released on severance and others the opportunity to re-skill and take up different posts.

We received some good news in December when the NDA announced that Dungeness A was to receive additional funding for South Side Site Clearance (SSSC). The site is to receive £12.8m over the next three years to help speed up decommissioning and demolition work. This will enable us to progress the work we have now started on in the turbine hall, including the asbestos strip, without further interruptions to funding. The remaining work, not yet in the plan, is expected to be inputted by the end of March 2013. The south side of the site will be cleared in around three years, rather than in 15 years as originally planned, providing a jobs-boost to the local economy and reducing the overall cost of the project. The entire project is expected to be complete in early 2015.

As we become a more projects led organisation we are refining to meet the challenges of decommissioning and this year we welcomed Bill Macaulay from AMEC who joined us as a Strategic Programmes Co-ordinator.

Myself and several members of the male staff participated in Movember, some very dodgy facial hair was exhibited during the month of November and we raised over £2,000 for the charities for awareness for men's health. Despite stiff competition from other Magnox sites the senior executive team crowned us the winners of the challenge within the company.

Dungeness has been instrumental in helping Magnox to achieve two prestigious accolades namely the Constructing Excellence East of England Award for the delivery of its Plant and Structures Programme and the Investors in People Gold Standard which we are very proud of.

I look forward to the challenges of the coming months. Throughout this very busy and changing period at Dungeness, safety has always been and will remain my priority.

A handwritten signature in black ink, appearing to read 'Ray Jepps'.

**Ray Jepps**  
**Site Director**

# 1. SAFETY AND THE ENVIRONMENT

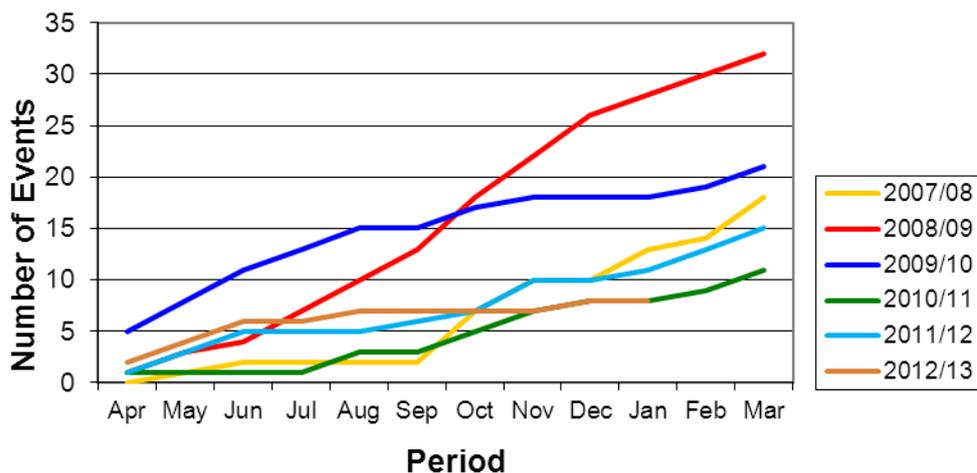
## SAFETY

Dungeness A has had a positive year in terms of safety with work being delivered safely and compliantly. There has not been a Lost Time Accident (LTA) for over 700 days. However we have had some reminders that we must not become complacent and that we cannot allow our standards to drop. We are continuously striving to improve and each year we develop a Safety Improvement (3P) Plan which covers People, Plant and Process ensuring that we look at all aspects of safety performance. The delivery of this plan is on target for completion in March 2013.

A number of recent events across the Magnox sites relating to working at height have resulted in the introduction of a new Company Standard to improve how we manage these areas and ensure access is only given to authorised persons. .

During this year we have had a number of first aid events which have resulted in changes to some of our processes and procedures. The wearing of mandatory light eye protection in external areas to address the risk of grit entering the eye has been introduced as has the use of specialist lifting companies to perform our mobile crane operations.

**Events Requiring First Aid Treatment**



This year the site completed its first joint Safety and Security demonstration exercise to our regulators which was deemed adequate.

Human Performance at Dungeness A continues to gather pace with the site being actively involved in using the tools and techniques on a daily basis to improve the safety and efficient delivery of our tasks. With the influx of new contractors to the site we are also involving our new partners in the Human Performance process so that they too can benefit from these techniques in their activities. We will continue to consolidate our understanding of the subject in the coming year and looking forward to making further improvements in the future.

We are proud of our safety record and to receive external recognition with the prestigious Royal Society for the Prevention of Accidents Occupational Health and Safety Award 2011 coupled with our continued compliance with ISO 9001 (Quality), ISO14001 (Environment) and OHSAS 18001 (Safety) Standards is an important acknowledgement of our performance.

## ENVIRONMENT

The environment team at Dungeness A continues to improve our performance in minimising the impact that the site has on the environment. Processes are regularly reviewed and challenged to deliver enhancements. The team is reviewing the site's energy consumption to improve energy efficiency and their proactive leak management has significantly reduced the water usage on site. Work with Natural England is on-going to ensure that impact to the local environment is minimised and the flora and fauna are maintained.

## 2. FUKUSHIMA

As previously reported a major earthquake and consequential tsunami hit the Fukushima Dai-ichi Nuclear Power Plant on the north-east coast of Japan on 11 March 2011. This caused severe damage to the reactor protection systems and degradation of the core. This prompted the Government to task the Office of Nuclear Regulation (ONR) to review the readiness of the nuclear sites to manage such an incident in the UK. The results of which were issued in a report "Japanese Earthquake and Tsunami: Implications for the UK Nuclear Industry Final Report" by Dr Weightman, HM Chief Inspector.

In order to fully capture the lessons learned from the event, Magnox Limited has set up a Fukushima Response Programme whose aims include:

- Apply the Fukushima learning and identify work that will enhance the resilience of Magnox sites to withstand extreme events.
- Manage the Company response to the Recommendations contained within the ONR Report.
- Ensure timely implementation of any enhancements.
- Liaise with other operators in the UK nuclear industry as appropriate to ensure a suitable level of consistency and to share learning.

Magnox Ltd held a series of workshops to identify potential enhancements that would increase the sites' resilience to extreme natural events. A bespoke list of enhancements was developed for each Magnox site to consider.

### What does it mean for Dungeness A?

Following completion of defuelling in April 2012, the main radiological hazard on site now is radioactive waste which is essentially in a passively safe state.

Natural hazards are no longer considered to represent a significant threat to safety at Dungeness A and the enhancements being implemented at the site are focused on providing operators with equipment and advice to support the response in the immediate aftermath of an event.

## 3. SITE NEWS AND PROJECTS

### Intermediate Level Waste

#### Interim Storage Facility (ISF) / Temporary Storage Facility (TSF)

Following a Strategy Review in October it was decided that:

- The ISF project will be closed out and an Interim completion report produced.
- The ISF will be deferred for approximately two years and re-estimated.

- Independently and subject to separate sanction a TSF project will be developed at Dungeness whilst the opportunity for regional storage is explored. The scope for the TSF is to be:
  - Store up to 60 Mosaik Intermediate Level Waste (ILW) containers.
  - Be available for active commissioning in December 2014.
  - Store ILW containers for up to five years, by which time it is assumed that a regional storage facility will be available to accept the ILW containers.
  - Satisfy specific functional requirements, planning conditions and other regulatory body requirements.

### Electrical Overlay Scheme (EOS) Site reconfiguration

- Work on the EOS site reconfiguration project has continued throughout the period. The scheme provides for the extension and connection of previously installed 6.6kV power supplies into key transformers around the site and will result in a much simplified electrical system to support the on-going decommissioning and demolition programme at Dungeness A. Once completed, a significant part of the complex electrical infrastructure that was required throughout the operational phase will have been taken out of service enabling the removal of redundant plant and buildings such as the Turbine Hall. The design, installation and commissioning of the new equipment, which started in July 2011, is being carried out by AMCO and is due to complete during 2013.

Progress to date includes:

- Completion of detailed design work.
  - Installation of all high and medium voltage cable and supporting tray work.
  - Modification and testing of 6.6kV Station Board No. 4 which was installed during a previous phase.
  - Installation of remote control and alarm facilities for Station Board 4.
  - Installation of two new 415V battery-backed Uninterruptable Power Supply (UPS) systems.
  - Installation of facilities for connection of diesel generator back-up supplies.
  - Preparation of operating and maintenance instructions for the new equipment.
- The programme of installing control cables and phased transfer of power supplies onto the new system will continue during the coming months, with a key aim of minimising disruption to normal site activities or other on-going project work.



Inside the new 6.6kV building

## Systems and Structural Preservation Project (S2P2)

- The Systems and Structural Preservation Project examine those systems and buildings required for future site operations to determine the best practicable means of implementing a programme of replacement, refurbishment or accelerated decommissioning as appropriate. The projects are as follows:
  - Gas Analyser on the EOS Transformer – this has been tested off site and has now been installed and commissioned on site.
  - Electrical Boards - progressing live and dead testing of these boards along with simple and complex repairs.
  - Reactor building drains replacement – with the design completed the intention is to commence works this financial year.
  - Reactor 1 A & B Drum House Roofs completed along with Reactor 1 A & B side louvers and reactor 2 Drum House Roofs commenced.
  - Gamma Monitors – to be rationalised and replaced as required around the site.
  - Ponds Water Filtration Caesium Recovery (PWFCR) inlet fan filter heater to be replaced, this work is to recommence and final connections and commissioning to be undertaken.
  - Street lighting to be replaced with low level lighting bollards.
  - Active Manhole alarms – install new level monitoring probe in each manhole and wire probe into existing electrical panels.

## Managed Retreat

Managed Retreat is one of the three enablers that are in progress for the South Site Clearance Project. The other enablers are Isolations and Diversions. The relocation of people and equipment from the Welfare Block will enable the isolations and diversions in this building to be implemented, leading to deplanting and demolition works. Some of this work involves re-using existing buildings which saves the company money.

### **New Scaffold Store (Previously Training Building 6)**

- The new scaffold store is now in full operation.

### **New Infrastructure Workshop (Previously Heavy Store 1)**

- The requirements for the new workshop have been established and work is progressing well with the installation of new internal partitions by Magnox personnel. The electrical systems design is nearing completion and quotations are being sought for the supply, installation and commissioning of the power distribution, telephone and fire systems etc.

### **Central Change Area modifications**

- Promanex have provided quotations for the building works. Some demolition and removal of equipment has commenced and new installation work is due to start in January. Quotations for minor electrical works are being sought.

### **New Main stores (Previously scaffold store)**

- The building has been emptied and the internal layout has been agreed. Installation of the new partitioning has commenced. The electrical design is nearing completion and quotations will be sought for the supply, installation and commissioning of the power distribution, telephone and fire systems etc.

## South Side of Site Clearance Project

- Mechanical and electrical isolation is being undertaken by a team of Dungeness staff utilising their skills and knowledge to progress their work safely and expediently. System diversions of essential services including water, fire protection system and electrical supplies are currently being undertaken within the turbine hall boundary which will put the building into a “cold and dark” state to enable handover to the demolition contractor.
- The accelerated asbestos works has involved stripping asbestos from three of the four Turbines in the Turbine Hall with the remainder of the asbestos works being carried out as the project moves forward.
- Following the recent announcement from the NDA that funding will be made available to complete the South Side of Site clearance project works over a three year accelerated period, work has commenced with contractors undertaking accelerated asbestos removal works as well as developing schedules and plans to bring forward the clearance works.
- Another key activity running in parallel has been Managed Retreat whereby buildings no longer viable in the long term can be surveyed, isolated and handed to the contractor for demolition.
- It is anticipated that a contract will be awarded to the de-plant and demolition contractor within the next few months so that the momentum of this important project will be maintained and that Dungeness will see a key sky-line change with the removal of the Turbine Hall and associated structures.



Asbestos enclosures under construction in the Turbine Hall

- The Turbine Hall Asbestos Insulation Removal project commenced in November to deliver £1.3 million worth of baseline before the end of this financial year. This scope was to remove the asbestos insulation from three turbines. The team have so far used 261 Tonnes of scaffolding equipment and 7500m of polythene to construct the asbestos enclosures and have stripped 12 tonnes of asbestos insulation. The current completion date is planned for March 2013.



Asbestos enclosures nearing completion

## ILW Projects Update

- The critical work in the ILW Programme at Dungeness A is the retrieval of the IONSIV cartridges and filters from the spent fuel cooling ponds. These were part of the filtration system of the ponds during operations. The engineering design contractor is producing designs for the retrieval equipment and process so that the IONSIV components can be transferred to ILW containers underwater in the ponds, much as we did transferring spent fuel in to transport flasks. This project is an enabler to the ponds being drained and sealed in 2015.

## **4. EMERGENCY EXERCISES**

### Emergency Plans and Handbook

- The sites Emergency Plan has been assessed by ONR and been formally issued.
- A new Generic Emergency handbook has been issued by the Company; the DNA Handbook is being revised against the generic one.
- The site is training new Emergency Scheme personnel, mainly Emergency Controllers and Assistant Emergency controllers.
- The site is also conducting training in support of Sizewell A site, this involves responding to Ipswich Police Headquarters in the event of an Off-site Nuclear Emergency declaration by Sizewell.

### Emergency Exercises

#### **Dungeness A**

- On 22 August 2012 the site conducted the Level 1 Demonstration Exercise; this was the first combine security and safety exercise at the site. Both Regulators ONR-CNS and ONR deemed the exercise as a satisfactory demonstration of the Site's Emergency Arrangements.

### Next Planned Exercises

#### **Dungeness A**

- During the week commencing 29 August 2013 – the site will conduct its annual Level 1 Exercise

## **5. STAFFING**

As of 31 December 2012 there were 248 full time members of staff at Dungeness A. There are an additional 21 staff who have a central role but work from Dungeness A. Therefore, the number currently working at Dungeness is 269.

There are also 17 agency supplied workers, three contract supplied workers and 15 individuals employed through Framework Agreements.

The number of contractors fluctuates according to the work being undertaken.

Six members of staff have left the company through either retirement or voluntary severance between October and the end of December 2012.

## 6. COMMUNITY RELATIONS

### Socio-economic Spend April 2012 to December 2012

To date a total of £34,730 has been donated through the Magnox Socio-economic Scheme with a few others being considered.

<b>Applicant</b>	<b>Reason</b>	<b>Amount</b>
New Romney & District Sea Cadets	Contribution towards new minibus this can also be used by other groups on request	£10,000
Grasshoppers Junior Football Club	New football kit	£350
New Romney Country Fayre	Sponsorship of entertainment and advertising	£580
Kent Wildlife Trust	The Marsh Community Garden: Training and Skills Development	£18,500
Rye International Festival 2012	Youth Art and Music Project	£4,300
New Romney Old School Trust	Electronic Updating & Preservation of Archive Material	£1,000

### Magnox's socio-economic approach

Magnox is committed to providing and enabling socio-economic support for the communities in which it operates.

A new Magnox socio-economic plan, developed to take into account the impacts of decommissioning was produced and agreed in 2011 following an assessment of the socio-economic implications for local communities 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 [www.magnoxsites.com](http://www.magnoxsites.com) > Corporate responsibility > Community > Socio-economic support or click on <http://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.

Your contact is: Haf Morris, Dungeness A Site Tel: 01797 343549