



## Bradwell Site

### Draft Minutes of the 60<sup>th</sup> Local Community Liaison Council (LCLC) Meeting

Mundon Victory Hall  
Wednesday 3<sup>rd</sup> June 2015

**Present:**

LCLC Executive:

**Brian Main**  
**Cllr John White**  
Lisa Reece-Ford  
Dr Louise Franks

**LCLC Chairman**  
**Deputy Chairman**  
LCLC Secretary  
Clerk

LCLC Members:

Shaun Birkett  
Ben Bridgewater  
**Cllr Robert Boyce**  
**Cllr Dave Bragg**  
**Cllr Paul Burgess**

Fiona Clyne  
Steve Dickson  
Stuart Fannin  
Tracey Finn

**Cllr Heather Glynn**

Dr Patrick Haley  
Paul Hetherington

**Cllr Phil Kelleher**

Karl Littlewood  
Kerry Martin  
Haf Morris

Keith Nicholson

**Cllr Tony Pluckrose**

Andrew Pynn  
Scott Raish

**Cllr Sam Richardson**

**Cllr Stuart Rivers**

**Cllr Gavin Rowsell**

**Cllr Stephen Savage**

**Cllr Tony Shrimpton**

**Cllr Kay Twitchen**

**Cllr Sylvia Wargent**

Magnox Ltd

Magnox Ltd

**Essex County Council**

**Mersea Town Council**

**Althorne Parish Council**

Cefas

Essex County Fire & Rescue

Office for Nuclear Regulation

Magnox Ltd

**Rochford District Council**

Magnox Ltd

Magnox Ltd

Nuclear Decommissioning Authority

**St Lawrence Parish Council**

Environment Agency

Maldon District Council

Magnox Ltd

Chelmsford City Council

**Tillingham Parish Council**

Environment Agency

Bradwell Site Director

**Bradwell Parish Council**

**Cold Norton Parish Council**

**Mundon Parish Council**

**Maldon Town Council**

**Maldon Town Council**

**Essex County Council**

**Maldon Town Council**

**Bold type - denotes voting members**

Members of the public in attendance:

Elaine Bamford  
Varrie Blowers  
Ian Clarke  
Graham Farley  
Gill Farley  
John Harrison



## Local Community Liaison Council

### 1. INTRODUCTION

2598 The Chairman opened the meeting by welcoming those present and inviting new attendees to introduce themselves. Chairman reminded attendees to introduce themselves prior to speaking. The following introductions were made:

- Cllr Phil Kelleher- St Lawrence Parish Council
- Elaine Bamford – resident of Tollesbury
- Cllr Stuart Rivers – Cold Norton Parish Council
- Cllr Kay Twitchen – Essex County Council
- Cllr Dave Bragg –Mersea Town Council
- Fiona Clyne – Cefas
- Kerry Martin – Maldon District Council

### 2. APOLOGIES FOR ABSENCE

2599 Lisa Reece-Ford confirmed apologies had been received from:

- Prof Andrew Blowers
- Kathy Brown – Braintree District Council
- John Dalton – NDA RWMD
- Simon Dedman – Essex Fire & Rescue
- Cllr Tim Drain - Bradwell Parish Council
- Cllr Adrian Fluker - Asheldham & Dengie Parish Council
- Ian & Coral Newton
- Selwyn Runacres - FSA
- Paul Walker - Essex County Council

### 3. APPROVAL OF THE PREVIOUS MINUTES

2600 The LCLC minutes resulting from the 58<sup>th</sup> Meeting held on 3<sup>rd</sup> December 2014 and those of the 59<sup>th</sup> Meeting held on 4<sup>th</sup> March 2015 were considered and approved subject to the following amendments:

04.03.15. Para 2591: Cllr Tony Shrimpton represents Maldon Town Council and not Maldon District Council.

04.03.15. Para 2591: Cllr Sylvia Wargent, who represents Mersea Town Council, was in attendance.

2601 John Harrison congratulated the Clerk upon the high standard of the minutes.

### 4. MATTERS ARISING FROM THE PREVIOUS MINUTES

2602 John Harrison questioned the outcomes of the Actions emboldened in the minutes of the 58<sup>th</sup> Meeting and the following was noted:

- Para 2573: Mr Everard to provide an electronic copy of the Bradwell Legacy Partnership Action Plan to the LCLC secretariat for circulation to attendees on request.  
Outcome: Secretariat awaits electronic copy and will chase Mr Everard to provide this.
- Para 2576: Mr Jenkin agreed to forward a copy of the GDF inventory to the secretariat for circulation.  
Outcome: completed with spare hard copies available at the meeting today.
- Para 2583: NDA to respond to the statement made by Mr Farley regarding the precautionary principle.  
Outcome: Mr Jenkin (NDA) requested a meeting with Mr Farley immediately after the meeting to clarify the question being asked to enable an answer to be formulated.

### 5. RECONFIRMATION OF THE CHAIR AND VICE CHAIR FOR THE COMING YEAR

2603 Chairman invited attendees to consider the reconfirmation of Cllr John White as Vice Chair. Cllr Boyce proposed, Cllr Glynn seconded, a vote was taken and the motion carried. Cllr White returned as LCLC Vice Chairman.



## Local Community Liaison Council

2604 Cllr White invited attendees to consider the reconfirmation of Mr Brian Main as LCLC Chairman. Cllr Boyce proposed, Cllr Savage seconded, a vote was taken and the motion carried. Brian Main returned as LCLC Chairman.

### 6. SITE REPORT

2605 Scott Raish, Site Director, provided a presentation to update attendees about site activities since the 59<sup>th</sup> LCLC meeting held 4<sup>th</sup> March 2015. The following points were noted:

- Safety and Environment: remains of paramount importance; safety of workers remains good with improving trends and environmental discharges continue to be compliant and checked with the Environmental Monitoring Programme. A pair of Peregrine Falcons have now nested (and are sitting on 2 eggs) in the dedicated box provided after an earlier nest had been destroyed by Crows.
- Mission: this remains the same; to completely clad the reactor buildings, install a weather cover over the ponds void, dissolve remaining FED and safely store all ILW to enable site to enter Care & Maintenance.
- Relicensing: Magnox and RSRL merged to form a single company on 01.04.15.
- Organisational Restructure: Across Magnox fleet there is a proposal to implement reductions of around 1400-1600 staff, agency and contractors by September 2016. Bradwell will continue with the previously agreed work and staff reduction plan as the site heads towards closure.
- Journey to Care & Maintenance (C&M): progress to date since 2009 summarised:
  - 1) *Demolition and Deplant*: Turbine Hall, Administration building and other facilities now demolished. Reactor buildings mostly deplanted. Ponds drained and sealed.
  - 2) *Construction*: ILW store erected. Security fence project has commenced and will be completed once all site activities have ceased.
  - 3) *Socio-economic Support*: working with the Community to develop the Bradwell Legacy Partnership.
  - 4) *Fuel Element Debris (FED)*: retrieval continues and should be completed by end of June 2015.
  - 5) *Cladding*: 50% of cladding scope has now been delivered and is estimated to complete by end 2015.
  - 6) *Site Surface Drainage*: ready for C&M.
  - 7) *Ponds*: drained and sealed, new discharge line installed and active drains decommissioned. Vault decontamination in progress with 6 of 12 complete and remaining vaults scheduled to complete by Feb/March 2016.
  - 8) *Intermediate Level Waste (ILW)*: conditioning ahead of baseline schedule. 26 containers have been placed into ILW store.
  - 9) *FED Retrieval*: 11 of 12 vaults cleared of FED and gravel; likely completion end of June 2015.
  - 10) *FED Dissolution and ADAP*: dissolution ongoing (3 dissolutions/day) with all discharges within permitted levels. Plant has been performing as intended (Time split - 75% availability: 25% minor modifications & maintenance). Some challenges involving compressors in ancillary support systems.
  - 11) *Community concerns*: communications about workers at Bradwell driving too fast in local area have decreased.

2606 Mr S Raish invited questions and Mr G Farley sought confirmation of the dates for FED discharges and when these would be concluded. Mr S Raish advised that Magnox were in discussions with the NDA and the outcome of these would impact on the probable end date. He estimated that discharges would continue for some 18 months. Mr S Raish took an **ACTION** to advise the secretariat when discharges commenced for circulation to attendees.



## Local Community Liaison Council

- 2607 Cllr R Boyce sought clarification of whether it was the same pair of Peregrine Falcons that were now nesting in the box provided that had had their eggs destroyed earlier in the year and this was confirmed. Mr S Raish added that time lapse video recording was being taken of the current nest.
- 2608 Mrs V Blowers questioned why there had been a new discharge line installed, how many discharges were undertaken each day and when FED retrieval would be completed. Mr S Raish advised that bulk FED retrieval should be completed by end of June 2015. Dr P Haley advised the rationale for the new discharge line explaining that this was to replace the large culvert used whilst the site was generating power when lines would be flushed with water extracted from the estuary. The decision to not maintain the pumps used to extract water would mean that the culvert could no longer be flushed regularly whereas a narrow bore culvert would not require flushing.
- 2609 Mrs V Blowers asked what discharges were likely once the site had entered C&M and Dr P Haley advised that this would be water that had got into the voids or surface water. He confirmed there were no plans for operational discharges.
- 2610 Mrs V Blowers asked for confirmation of the frequency of discharges currently, Chair advised that this had been covered exhaustively previously and was once daily half an hour after high tide. Mr P Haley confirmed that this remained as previously reported at a maximum of one per day.
- 2611 Cllr S Rivers asked if the discharges were monitored and this was confirmed with details of the Environmental Monitoring Programme.
- 2612 Mrs G Farley questioned whether biocides were used to keep the discharge pipes clean and Mr P Haley advised that biocides were not used and were not necessary.
- 2613 Cllr D Bragg questioned how much material would be imported to the site for dissolution and what impact this would have upon when the dissolution process was likely to cease. Mr S Raish advised that the dissolution process would not be affected by any proposed imports of material for interim storage and that the proposed Magnox Waste Strategy (Agenda item 7) would describe the quantities and destination of material likely to be imported.
- 2614 Mr C Clarke questioned whether extending the period of dissolution to 2017 would mean a delay in the site entering C&M. Mr S Raish advised that site were liaising with the NDA and other regulators regarding the probable end date for dissolution and reiterated the agreed action (para 2605) to inform the LCLC of the outcomes, adding the **ACTION** that any impact on date for entering C&M would also be shared when fully agreed.

### 7. PROPOSED MAGNOX WASTE STRATEGY OPTIONS

- 2615 Ben Bridgewater introduced himself and provided an update to the Magnox Waste Strategy described at length by Peter Ireland at the LCLC 59<sup>th</sup> meeting on 04.03.15. He gave a brief reminder of the strategy to regionally consolidate ILW waste, meaning that waste generated by Bradwell, Dungeness A and Sizewell A sites would be stored into the ILW store constructed on Bradwell site. Mr B Bridgewater explained that the NDA intend to publish a paper within the next few months that both explains the rationale behind and endorses this strategy. He advised that this strategy intended to propose that transport for packages will be via the railhead.
- 2616 Mr B Bridgewater advised that Magnox would undertake work to implement the strategy, once endorsed by the NDA, and that to do so would require planning permission. He explained that the ILW store planning permission currently specifically prohibits the import of ILW waste from other sites and that Magnox would be seeking to remove this condition. The process for the planning application for removal of the condition involves stakeholder engagement. Currently the planning application was being drafted with submission likely before the end of 2015.
- 2617 Mr B Bridgewater then provided an update to the strategy for managing FED reminding attendees that the early retrieval work at Bradwell had enabled better characterisation of FED and that a proportion of this across the Magnox fleet was suitable for disposal as Low Level Waste (LLW) into the existing LLW Repository (LLWR). The technical work to formulate the case LLWR was currently being undertaken and should be completed within the next couple of months. The impact of this upon Bradwell is that approx 20% of already retrieved FED waste could be used to pilot this disposal route. The remaining circa 80% of FED waste characterised as ILW will continue to go through the dissolution process prior to storage in the ILW store.



- 2618 Cllr Paul Burgess suggested that there was 'operational creep' in that the Bradwell ILW store was designed to store ILW from Bradwell alone and would now be used to store ILW from South East sites. He asked what proportion of the ILW store capacity would be used for Bradwell-generated ILW and similarly for Dungeness and Sizewell ILW and what space would remain. He questioned whether there was any possibility that this could extend to importing ILW from other sites nationally. Mr B Bridgewater explained that ILW waste package numbers were always uncertain until the waste had been retrieved, characterised and processed. He estimated that Bradwell ILW would now occupy approx 50% of the capacity of the store and that combined Dungeness and Sizewell ILW would occupy the other 45-50%. In terms of future opportunity to import from other sites, this would be very unlikely as other storage arrangements have already been developed using the principle of consolidating waste regionally. Upon request, Mr Bridgewater estimated that approx 170 ( $\pm 10$ ) packages would be imported from Dungeness and Sizewell combined and confirmed that, even with technical efficiencies, this was unlikely to be considerably reduced. He confirmed that these were estimated numbers based on the latest information available to him.
- 2619 Cllr D Bragg sought confirmation that imported waste would not require any processing by Bradwell and Mr B Bridgewater confirmed this was the case advising that all imported ILW would be contained in the finished storage packaging.
- 2620 Mrs V Blowers questioned whether any imported ILW from Sizewell would undergo dissolution at Bradwell. Mr Bridgewater explained that there were no plans to dissolve waste from Sizewell at Bradwell and that the ILW that was proposed to be put in interim storage at Bradwell would arrive in finished store packages.
- 2621 Mrs V Blowers asked what opportunity there was for stakeholder engagement with the Magnox Waste Strategy and heard that there would be opportunity for the Bradwell community during the planning application process. Mr B Bridgewater said he envisaged public drop-in centres to support local community engagement, as undertaken previously, but that no arrangements were yet in place.
- 2622 Cllr H Glynn explained that she had undertaken a site visit that included the ILW store and had heard that once full the store would be closed and left *in situ* for some 300 years. She explained her understanding that ingress of ILW from Dungeness and Sizewell would span over 2 or 3 years after the site had entered C&M and thereafter, other than storage, the site would be closed for anything nuclear. Cllr H Glynn sought confirmation that her understanding was correct. Mr B Bridgewater explained that the 300 year storage period cited was inaccurate as this waste was destined for disposal in the Geological Disposal Facility (GDF) that was estimated to be available from 2040. He clarified that once Bradwell had entered C&M, that packages would be imported in batches that this would involve contracted staff moving packages from the transport into the ILW store before again leaving the site quiescent.
- 2623 Cllr S Rivers questioned what security arrangements would be in place to protect against terrorist activity once the site had entered C&M. Mr S Raish explained that Magnox was currently working with ONR Civil Nuclear Security (CNS) to decide the appropriate arrangements for long term site security suggesting that more would be known by the time of the next meeting. He advised that ONR CNS support the campaign basis for importing ILW packages and that appropriate man power to enable and support the process would be made available. Mr S Fannin added that during C&M the site will still be subject to nuclear security regulations that require an approved site security plan. He added that the case has not yet been made to enable the site to become unmanned.
- 2624 Mr J Harrison drew attention to the question he had posed at the 59<sup>th</sup> LCLC meeting (Q2 on page 3 of 04.03.15. Minutes) concerning the types of packaging to be used for the imported waste. He questioned what would happen if the space required for the imported packages exceeded that remaining in the ILW store. Mr B Bridgewater expressed his confidence that there would be sufficient space adding that the EA require Magnox to minimise the number of packages to be stored.
- 2625 Mr G Farley asserted that Mr B Bridgewater was talking as if the condition on the planning permission for the ILW store had already been removed. He questioned why Essex County Council imposed this condition originally and Cllr K Twitchen agreed an **ACTION** to ascertain from planning



colleagues why this condition had been specified.

## 8. NUCLEAR DECOMMISSIONING AUTHORITY (NDA) UPDATE

- 2626 Mr J Jenkin drew attention to the NDA monthly update for June 2015 and in particular commented upon the following:
- Entries for supply chain awards are being sought to enable outstanding contributions to the nuclear clean up mission to be recognised. These will focus on exports and innovative technology.
  - Magnox new organisational structure means workforce reductions of 1400-1600. The objective remains to deliver the Magnox fleet of sites into C&M by 2028. This restructuring process will be carried out with fairness and respect for all staff and will be implemented by Sept 2016.
  - Sellafield has succeeded in transferring radioactive sludge from their ponds to the interim store (Sludge Packaging Plant). This was described as a significant step forward.
  - NDA Business Plan published in April 2015 that sets out planned income and expenditure for the next three years. NDA Annual Accounts to be published end of June.
  - NDA archive has received planning permission and will be built at Wick in Scotland.
  - NDA has exceeded the Government target (of 20%) for annual supply chain spend with small and medium-sized enterprises, actually achieving 21%. By the end of this parliament, this spend is targeted to increase to 25%.
  - Workforce transition scheme in Wales, called 'Shaping the Future', has exceeded its target of 1200 by progressing more than 1400 individuals through the programme that helps individuals to gain alternative employment.
- 2627 Cllr S Richardson questioned what the NDA plan to do with the land that they own that surrounds the Bradwell site. Mr J Jenkin agreed to take an **ACTION** to talk with property colleagues about the land adjacent to the Bradwell site and provide a written answer to the LCLC secretariat for circulation. Mr J Jenkin advised that there is a property and assets strategy for the NDA estate with the overall objective to progressively dispose of land and assets that are not essential to the decommissioning of the sites, wherever possible gaining commercial value. He advised that the NDA were sensitive to community views, adding that security considerations for each site may determine the use of land immediately adjacent. Mr S Raish added that Magnox was aware of some concerns raised about the nature trail area and was continuing to look at future options. Cllr S Richardson questioned whether local councils would have an input into these decisions and this was agreed as probable.
- 2628 Cllr P Burgess questioned whether the land had potential to be used for a future power station. Chair interjected that the remit of the LCLC was not to speculate about future new build but to focus on decommissioning the existing site. He reminded attendees that the LCLC was funded by the Nuclear Decommissioning Authority.
- 2629 Cllr P Burgess sought clarification of what land the NDA was selling off. Mr J Jenkin explained that the NDA did not own much land around the Bradwell site but at other locations they owned extensive areas of land. He reiterated the above action (para 2626).
- 2630 Mr I Clarke formulated a question about socio-economic funding and was asked to defer this question until agenda item 12 concerning socio-economic funding had been heard.
- 2631 Mrs V Blowers referred to the written response provided by Mr J Jenkin concerning the quantity and types of waste destined for the GDF. She referred to point 2.21 which estimates the volume of waste to be 650,000 cubic metres, filling just over half of Wembley Stadium (57%), describing this as misleading and that the size of the GDF would actually be between 6-11 Royal Albert Halls. Mr J Jenkin advised that the information circulated was taken from the DECC website about the GDF siting process. He advised that the current best estimate of 650,000 cubic metres was a volumetric estimate and that the actual final volume would depend on how effectively the waste management programme minimised the waste to be stored and how the waste was to be segregated in the disposal facility.



**Add'l Item RADIOACTIVITY IN FOOD AND THE ENVIRONMENT REPORT (RIFE)**

2632 Chair advised that the Food Standards Agency (FSA) RIFE report for 2013 had been published and hard copies made available to attendees at this meeting and that he had noted that levels of radiation in the local area were hugely lower than the limits set.

**9. OFFICE FOR NUCLEAR REGULATION (ONR) REPORT**

2633 Mr Stuart Fannin, ONR Site Inspector, introduced himself and provided an overview of how the ONR interacts with the site and other bodies and how the ONR formulates their regulatory position and undertakes permissioning to ensure the correct level of compliance so that the site is safely and securely managed. He advised that the hazard reduction on site has meant that the requirements under REPIIR to provide an off-site emergency plan have now ceased. This does not mean that an accident or emergency could not occur on site and, therefore, an updated on-site emergency plan remains. More details are available on the ONR website.

2634 Mr S Fannin referred to organisational changes within Magnox reassuring attendees that Licence Condition 36 (LC36) requires that enough Suitably Qualified and Experienced Personnel (SQEP) remain on site. ONR have undergone a series of engagements with Magnox, CFP and the NDA to ensure that the transfer to the new parent body and the decision to bring Harwell and Winfrith under the Magnox banner is being undertaken in an appropriate manner. ONR have published details of the basis for their agreement to these matters on the ONR website. The ONR have had close oversight of the proposed reorganisation of the workforce and are broadly content providing LC36 conditions are met. Specifically for Bradwell, the proposed workforce reorganisation will have minimal effect as the programme of work is well developed and well resourced.

2635 Mr S Fannin drew attention to the quarterly report dated 01.01.15. to 31.04.15. and explained that the ONR routinely undertake regular compliance inspections to a schedule that is determined by the hazards on site. He acknowledged stakeholder concern regarding FED dissolution and abatement and management of radioactive waste, advising that these are on the ONR radar and are subject to compliance inspections. An example was provided of a recent inspection to review the safety case for FED dissolution. This found that staff training was not fully complete and judged the safety case to be adequate providing this issue was resolved.

2636 Details of another inspection concerning waste management on site was explained by Mr S Fannin in detail. In summary, this inspection was undertaken in conjunction with an ONR Waste Specialist and considered the accumulation of waste on site, considering how it was packaged and stored whilst ensuring sufficient margin of safety in case the intended disposal route was delayed. Magnox have been able to demonstrate that packages for ILW are appropriate for storage but not yet for disposal in the future GDF. Movement of packages from Dungeness and Sizewell to be stored at Bradwell has been considered and sufficient capacity in the ILW store with a margin of error has been estimated. The safety case for the ILW store requires that any packages coming onto site must be preconditioned and configured to the same state and packaged similarly before being accepted. Currently there are some transport issues that are still being progressed.

2637 Mr S Fannin explained that the majority of time on site is spent discussing the configuration of the site during C&M once the decommissioning and deplant programme is complete. He explained that the security inspection and monitoring regime was yet to be finalised and will require permissioning by the ONR before the site can move into C&M. He concluded his presentation by stating that the ONR, Magnox and other bodies work together in a positive manner to progress these matters. Questions were then invited.

2638 Mr Harrison asked what would happen if agreement could not be reached regarding transport arrangements for ILW packages. Mr S Fannin responded that the packages would simply not be transported.

2639 Mr G Farley referred to the principle of minimising risk and questioned why the ONR would allow the creation of risk by allowing ILW to be transported to Bradwell. Mr S Fannin advised that the risks involved during transfer would be minimal. Mr Farley questioned whether the packages would be moved by road or rail and Chair reiterated that rail was intended to be used with local transfer via road from the railhead to the site all undertaken under ONR International Standards.



## Local Community Liaison Council

- 2640 Mr I Clarke stated that ILW coming from Dungeness would have been subject to dissolution but that ILW coming from Sizewell A would not. He questioned whether this difference had been considered. Mr S Fannin advised that the Sizewell ILW proposed to be placed in interim storage at Bradwell was a different form of ILW rather than FED – such as Miscellaneous Activated Components. Bradwell also has similar waste on site. FED would not be taken to Bradwell because the strategy proposes an alternative disposal route for Sizewell FED.
- 2641 Cllr T Pluckrose sought clarification of the site no longer constituting a hazard under REPIR. Mr S Fannin explained that under REPIR the requirement for an off-site emergency plan has two criteria; potential to create a radiation emergency; a radiation emergency was reasonably foreseeable. The hazard limit is 5mSv. Some hazard remains on site that could create a localised event but at a frequency that is less than reasonably foreseeable. The requirement for an on-site plan remains as does off-site monitoring capability.
- 2642 Cllr T Pluckrose questioned why if the hazard is so low that having remote security provided by a central hub has not been already been agreed as adequate. Mr S Fannin explained that nuclear safety is separate from nuclear security. There is a requirement for approved site security irrespective of whether a nuclear emergency was feasible.
- 2643 Cllr P Burgess commented that if the packages for ILW were not suitable for GDF disposal this would mean that they remain at Bradwell in perpetuity. It was explained that a letter of compliance from the GDF would be required before the site could enter C&M. There remains a couple of issues that need to be resolved to enable transport and disposal at a GDF. Chair clarified that at this time the packaging has not been deemed unsuitable, just not confirmed as suitable, for disposal.

### 10. ENVIRONMENT AGENCY (EA) REPORT

- 2644 Mr K Littlewood introduced himself as the EA Inspector for Bradwell site, principally responsible for permitting for radioactive substance discharges and ensuring interface between the EA and the site. He drew attention to his report dated Dec 2014 – May 2015 and in particular to the following items:
- **Stakeholder Communications:** a large amount of ongoing engagement. In response to the heightened interest in Bradwell site, information available on the public register has been duplicated on a web-portal <https://ea.sharefile.com/d/s1d8fc4a719b4d92b>
  - **Site Inspection:** a lot of joint working with ONR. ONR are the lead regulator for waste stored on site with the EA the lead regulator for waste disposal. This means collaborative working between the regulators to ensure the waste meets the requirements for storage and those for future disposability.
  - **Treatment of FED:** EA are satisfied that plant performance, from an environmental perspective, is as expected.
  - **C&M:** engagement with Magnox and other regulators to determine final configuration proposals for the site.
  - **ADAP Plant Leak:** previously reported. EA have now concluded enforcement action and are satisfied with the remedial action taken on site. Full details in report.
  - **Environmental Monitoring:** EA has carried out a review of all environmental monitoring undertaken to ensure the programme is consistent with all requirements detailed in the EA Technical Guidance. The outcome was that it did meet these requirements. However, in response to stakeholder requests, this monitoring has been enhanced to increase the geographical spread within the programme.
  - **Environmental Impact:** 2013 RIFE report now published. Lowest level for a dose to be reported is 5µSv (0.5% of public dose limit). At levels below this the uncertainties and variabilities become so large, it is meaningless to report smaller values. For Bradwell the dose to the most exposed member of the public was less than 5µSv for 2013.
  - **Habit Surveys:** Cefas works with FSA and EA to support environmental monitoring by carrying out periodic surveys of habits. This year the survey will be carried out locally with outcomes reported next year.



## Local Community Liaison Council

- 2645 Mr K Littlewood advised that there were two matters that the EA have been involved with that were not included in his report:
- **Magnox organisational change and proposals for workforce reform:** reassurance from Magnox that this will not impact upon the key roles and responsibilities relating to the environment.
  - **Incidence of Cancer:** coverage in local media reporting elevated incidence of some cancers. This report uses studies carried out over ten years ago that have been rigorously reviewed by the Department of Health Committee on Medical Aspects of Radiation in the Environment (COMARE). A report was subsequently published (COMARE 14 Report).
- 2646 Chair referred to the graphs in the report and questioned the spike pattern. Mr K Littlewood explained that the peaks on the gaseous discharges graph correspond to less than 1% of the annual discharge limits. The graphs are based over five years to try and reflect the context for discharges currently.
- 2647 Cllr H Glynn explained her interest in local wildlife and questioned whether trees will be planted around the site to attract birds that will then continue on to RSPB reserve at Wallasea. Mr K Littlewood explained that this was unlikely to form part of any EA requirement and that it was the choice of Magnox whether to implement such planting. Mr S Raish agreed to take an **ACTION** to take back this request for serious consideration.
- 2648 Ms E Bamford questioned how many visits the EA Inspector makes to the site, particularly in relation to discharge monitoring, and whether the site are notified of these. Mr K Littlewood advised he visits approx monthly and that he normally makes arrangements in advance. However, as a regulator he does have the right to just turn up unannounced. He explained that discharges are limited to up to one per day and actually occur 2 or 3 times per week. His visits do not always coincide with when discharges occur.
- 2649 Mrs G Farley referred to an article in the Clapton Gazette that stated that Magnox had been fined by the EA because of a leak. She questioned whether this was true. Mr K Littlewood reminded attendees that Magnox had a fleet of sites and confirmed that Bradwell has not received a fine from the EA for a leak for years.
- 2650 Mr G Farley reported that he had received a phone call from Bernard Jenkin MP expressing concern about high levels found through independent sampling on Mersea Island. Mr G Farley advised that the MP will be writing to Mr K Littlewood regarding these sampling results. Mr K Littlewood explained that approx a month ago Bernard Jenkin MP had referred to the EA some correspondence from a concerned constituent that inferred an elevated level of activity in the environment at West Mersea relative to that at Bradwell. Mr K Littlewood replied to Bernard Jenkin MP explaining that the data being used was from the EA monitoring programme available via the web portal, that they were 'less than' values meaning that the actual level was below the levels of detection and that, even if the radiation detected had been at the minimum detection level, it would not be a concern from a radiological perspective.
- 2651 Mr G Farley asserted that under the EA 'Habitats Assessment for Radioactive Substance' (HARS) documents, there was a requirement for authorisation limits for Countryside Rights Of Way (CROW). These limits expired in 2014. Mr G Farley has requested current habitats assessment limits for CROW for 2015 and has been told by a colleague of Mr K Littlewood within the EA that there was no legal reason to produce these documents. He asserted that the HARS documents did not have correct supporting documentation. Mr K Littlewood advised that Mr G Farley may be referring to an impact assessment in relation to non-radioactive discharges. Mr Farley emphatically interjected that this concerned radioactive discharges, asserting that there was legally binding requirement for the environmental section of the permit and that this had expired in 2014. Mr K Littlewood categorically assured that the permit for radioactive discharges does not have a time limit, it remains extant. Chair interjected and asked that Mr G Farley and Mr K Littlewood discuss this further outside of this meeting. Mr K Littlewood reiterated that the permit for radioactive discharges has no expiry conditions.



2652 Mr Harrison referred to the suffixes in square brackets in the report and asked what they referred to. Mr K Littlewood explained that the suffixes were detailed in the footnote but that the headed paper on which the report was printed had a coloured footnote that had semi-concealed them.

#### **11. CENTRE FOR ENVIRONMENTAL, FISHERIES & AQUACULTURE SCIENCE (CEFAS) HABITATS SURVEY**

2653 Ms Fiona Clyne introduced herself and advised that Cefas would be undertaking a public habits survey from 4<sup>th</sup> – 14<sup>th</sup> August on behalf of the EA, FSA and the ONR. She drew attention to the public information leaflet available in hard copy at this meeting which describes the activities that will be undertaken during the survey and contact details for anyone present that might like to take part. Ms F Clyne advised that outcomes from the habits survey are used to assess the dose rates to the public and that outcomes are reported in the annual RIFE report.

2654 Ms F Clyne advised that the last habits survey in this area was undertaken in 2007 and that Cefas undertake habits surveys across the country. She explained that there were three key areas: aquatic (liquid discharges), terrestrial (up to 5km from site) and radiation (up to 1km from site) and described some of the people that Cefas would be consulting with to gather data about each. Ms F Clyne advised that what is eaten is measured as a consumption rate per annum and activities undertaken as hours per annum. Members of the community are targeted to try and gain an overview of those most exposed in the area.

2655 The EA have compiled a list of interested stakeholders prepared to take part in the survey and a schedule of consultations will be planned before the survey itself commences. Ms F Clyne encouraged any attendees wishing to take part to contact her via email ([habits.survey@cefas.co.uk](mailto:habits.survey@cefas.co.uk)).

2656 Mr I Clarke referred to the 58<sup>th</sup> LCLC meeting re para 2561, in which an estimate of 10% of discharge effluent taken on the ebb tide returned when the tide turned, advising that local Oystermen dispute this and estimate instead that the refresh period is actually every 14 days. He questioned how this fed into the Cefas survey to enable identification of local hot spots. He asked whether Cefas consider refresh dates. Ms F Clyne advised that Cefas will consult with local Oystermen to understand their activities. Mr K Littlewood added that the EA evaluate the impact by attributing any detriment to the people that are most affected locally. This uses the measures of activity in the environment multiplied by the habits survey outcomes to give a worse case scenario measure of dose to the most exposed group.

2657 Cllr P Burgess stated that the primary inputs into the food chain, either directly or via animal feed, are cereals, rapeseed and alfalfa and that these are harvested before August. He questioned what plans there were to sample these products before the survey commenced. Ms F Clyne advised that the Cefas survey does not collect samples but asks about activities and habits that occur throughout the year. This would enable an understanding of what crops are grown and when they are harvested and this informs the FSA of when the most appropriate time would be to collect samples. Cllr J White added that he was aware that in his Parish, local fishermen and dairymen send samples to the FSA throughout the year. Ms F Clyne concurred reiterating that it was the FSA that was responsible for sample collection and testing throughout the year.

#### **12. SOCIO-ECONOMIC SCHEME**

2658 Mrs Haf Morris introduced herself as the Socio-Economic contact for Magnox sites and provided a presentation about the benefits for the Bradwell community and how the scheme has recently changed. This included a breakdown of how £54,308 had been distributed to the local community in the past fiscal year, of which £50,000 was awarded to Maldon District Council to develop the Bradwell Socio-Economic Plan. It was noted that this was the second of three years of funding provided to Maldon District Council at this level.

2659 Ms H Morris described some of the highlights as follows:

- Bradwell Nuclear Power Station Legacy Partnership (BLP) formed that involves local councils, business leaders, voluntary sector, education and local community groups (including the LCLC)
- Building on 'Economic Impact Assessment Report and Action Plan' and 'Economic Prosperity Strategy'
- Areas developed include tourism, skills, business premises and business & community support



## Local Community Liaison Council

- “Sense of Place” project established – tourism summit held and Business event planned for Autumn
  - Dengie Enterprise Support established to support small business start-ups
- 2660 Changes to the Magnox Socio-economic scheme were described by Ms H Morris as resulting from the structural re-organisation that was realised from 1<sup>st</sup> April meaning that Magnox now has 12 sites within their fleet. The NDA remit to mitigate the impact of decommissioning remains the guiding principle. All previous schemes have been amalgamated into a single Magnox scheme, managed on behalf of the NDA, and will consist of the following:
- £1million every financial year across 12 sites
  - Funding available on a rolling programme categorised as follows:
    - Small projects, up to £1,000, limited to £6,000/annum/site
    - Sustainable projects, up to £10,000
    - Significant impact projects, over £10,000
  - High value socio-economic interventions prioritised according to time to C&M and prevailing socio-economic conditions
- 2661 Ms H Morris advised that the application process was via the web portal <https://magnoxsocioeconomic.com> and offered her support with applications. It was noted that the portal is currently not operational and applications should be submitted in a word format via email directly to Ms H Morris until fixed.
- 2662 The process for considering the applications was described and it was noted that for small projects the Site Panel were the deciding body, sustainable projects were decided by the Magnox Socio-economic Team and significant projects would be considered for approval by the Magnox Executive Review Panel and require a scheme of governance for their duration. Quarterly reports on all applications relating to each site would be made available to stakeholder groups.
- 2663 Mr J Harrison sought comment on the perception that the Bradwell community lose out because of the high demands of the Cumbria community. Ms H Morris advised that the sites approaching C&M (Bradwell, Dungeness, Trawsfynydd) are the priority sites to receive funding BUT this depends on the application submitted.
- 2664 Mr I Clarke sought confirmation that the Socio-economic fund would not be used to draw down any planning gain from Essex County Council to enable co-location of ILW at Bradwell. Ms H Morris advised that Socio-economic funding was totally separate from any planning application. Cllr S Savage advised that as Vice Chair of the scrutiny Committee at Maldon District Council, he could confirm that funding received would be spent appropriately for the intention specified in the application.
- 13. CHAIRMAN'S FEEDBACK**
- 2665 Chairman advised that one item of note had been the Bradwell Legacy Partnership meeting held at Stow Maries First World War Aerodrome. At this meeting there had been an initiative to utilise the aerodrome for apprenticeships for the building and restoration of antique aircraft backed by the local college at Colchester. Chair referred to the tourism initiative discussed to develop an identity for the area as the 'Salt Marsh Coast' to act as an umbrella for local tourist attractions and help establish the area as a tourism destination.
- 14. ANY OTHER BUSINESS**
- 2666 No additional business was raised
- 15. DATE AND TIME OF NEXT MEETING**
- 2667 Proposed date of Wednesday 9<sup>th</sup> December 2015, subject to confirmation.
- 16. CLOSE**
- 2668 Chairman closed the meeting at 12.45.