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110th LLC Meeting Presentation Slides

Thursday 7th November 2024

The AWE Rec Soc, Aldermaston

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Agenda

- 9.30 Introductions / networking / refreshments
- 10.00 Welcome and introductions
- 10.15 AWE Communications
- 10.25 Development update
- 11.05 Infrastructure investment update
- 11.35 Estates and Liabilities update
- 11.50 Community update
- 12.15 Lunch
- 13.00 Regulators' update
- 13.45 ESH&Q update
- 14.10 Emergency planning update
- 14.40 UVS Team update
- 15.00 Any other business
- 15.15 Close

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Chair's Opening Remarks

Ian Rogers

Chief Nuclear Officer - AWE

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AWE Communications Update

Nicole Targett
Media and PR Manager - AWE

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AWE Development Update

Andy Burnett-Dale
Head of Estate, Strategy and Planning - AWE

Bryan Lyttle
Estate Planning and Development Lead – AWE

Piran Borlase-Hendry Senior Environment Specialist - AWE

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Topics

- Future Planning – focus on environmental agenda
- External planning
- Travel and Transport update
- Postcode map

Future Planning - Biodiversity & Future Development

Avoid, mitigate, compensate:

- Ecological and heritage surveys undertaken in advance of all construction and demolition works
- Impact of lighting and noise always considered
- Habitats of Principal importance protected wherever possible
- Aim to integrate biodiversity into new builds
- Any unavoidable losses are compensated

Enhance – (Biodiversity Net Gain (BNG)):

- All new builds on track to meet at least 10% BNG
- Climate resilient landscaping
- Local Nature Recovery Network engagement
- MOD policy extends to some permitted development
- BNG delivery being considered as a coordinated site wide approach

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- **Enhance – Nature Recovery Plan:**
- Utilise Nature Based solutions
- Enhance and protect tree planting
- Increase pollinator habitat
- Natural Capital Approach
- Sharing best practice with nuclear and defence sector
- Conservation led surveys for key species
- Positive feedback from Environment Agency

External Planning Update

- West Berkshire Local Plan
 - Further hearing finished with no proposals for development in the DEPZ
- Wokingham Local Plan
 - Submission Draft out to consultation with view to submitting Dec/Jan
 - No allocations proposed in the DEPZ
- Basingstoke and Dean Local Plan
 - Held a call for sites
 - Submission Draft due to be published winter 2024/25
- Appeal Decisions
 - The Planning Inspectorate (PINS) has supported the principle of no new residential development inside of the DEPZ (August 2024).
 - Planning appeal public inquiry for another residential development inside Burghfield DEPZ held in September 2024. ONR, WBDC Emergency Planning, AWE and MOD appeared at inquiry to object to the development. Decision from PINS expected sometime in November.
 - More appeals expected in the new year in Wokingham.

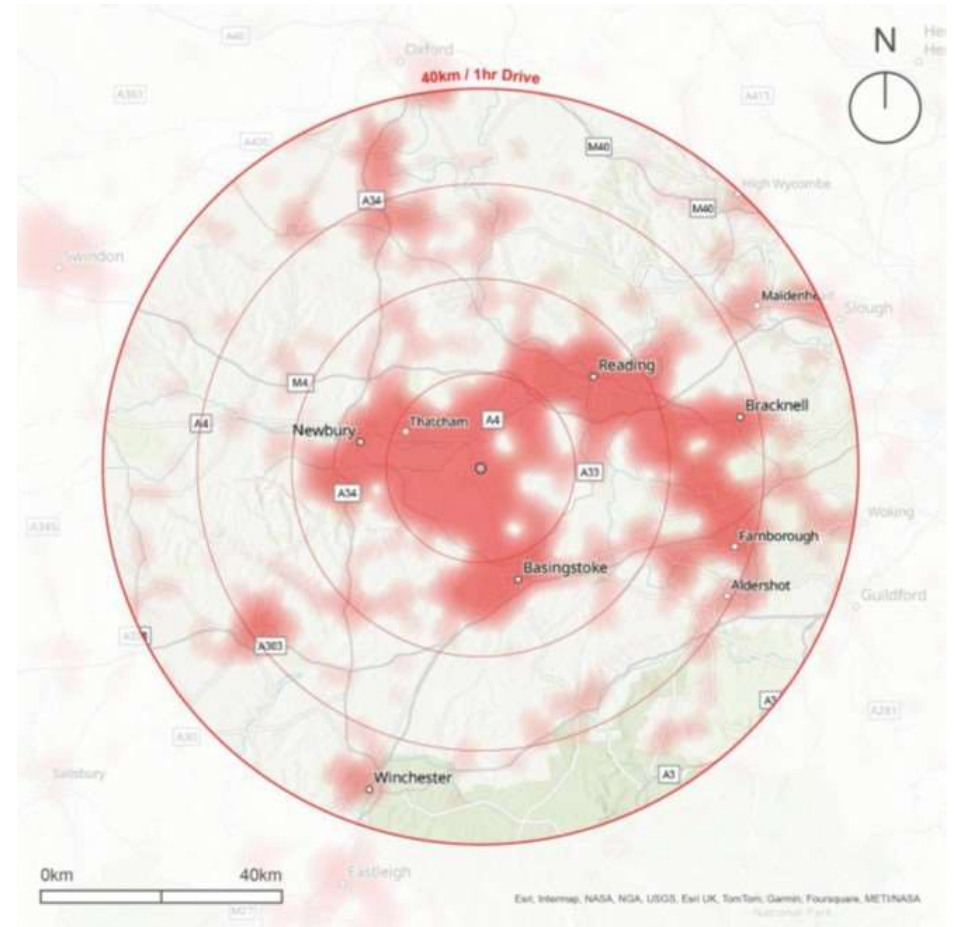
Mobilityways AWE Travel Survey 2024

Key Findings

AWE Aldermaston	AWE Burghfield
75% single occupancy vehicle (SOV) travel (same as gate survey)	88% SOV travel (4% higher than gate survey (note – excludes construction workers))
22% of respondents in favour of improved off-site walking and cycling routes	18% of respondents in favour of improved off-site walking and cycling routes
45% of respondents would use a regular AWE bus service (14% Basingstoke, 14% Reading, 10% Newbury / Thatcham and 7% Aldermaston railway station)	27% of respondents would use a regular AWE bus service
27% could be encouraged to Liftshare if they received help to find a Liftshare partner	30% could be encouraged to Liftshare if they received help to find a Liftshare partner
Evidence of staff being unaware of existing initiatives that are actually already provided	Evidence of staff being unaware of existing initiatives that are actually already provided

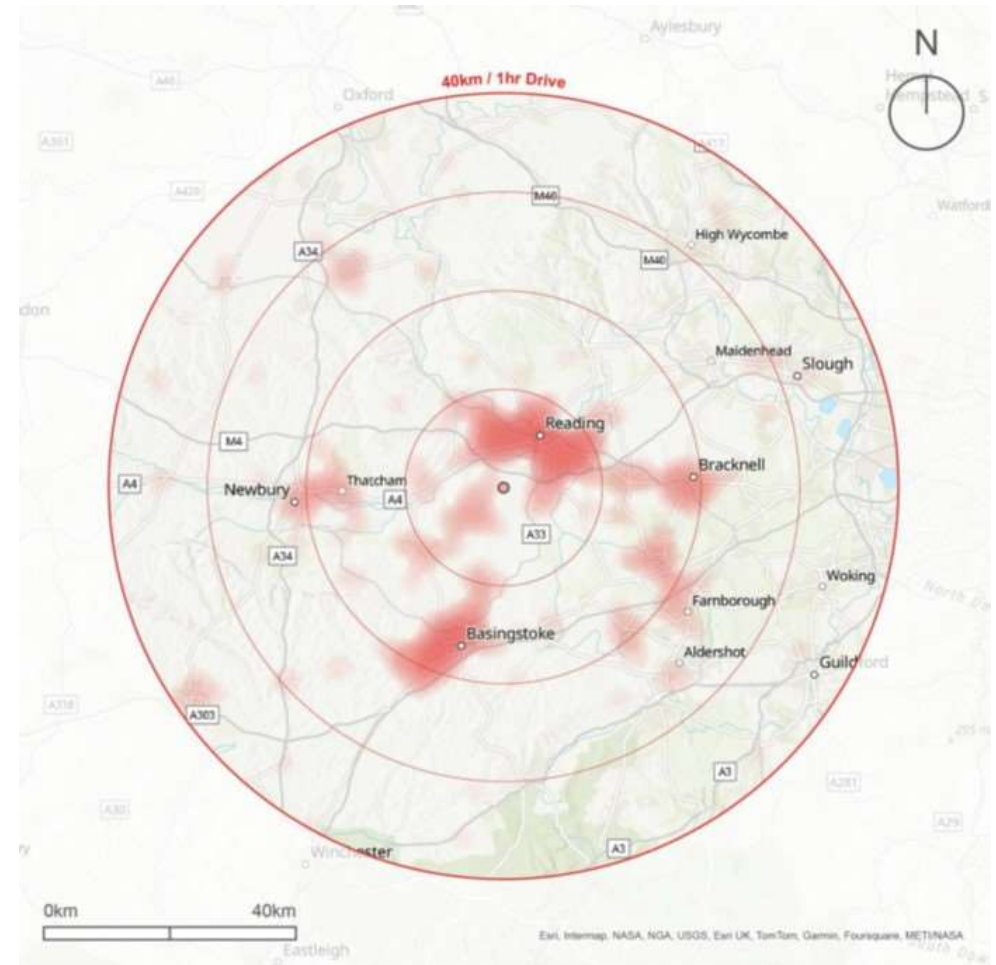
Postcode Map - Aldermaston

- 6,409 (92%) employees have at least one sustainable mode available to them.
- 6,319 employees could car share (5,226 with more than 10 possible car share matches).
- 1,414 employees could cycle.
- 644 employees could cycle or walk.
- 1,715 employees could use public transport.



Postcode Map - Burghfield

- 654 (86%) employees have at least one sustainable mode available to them.
- 654 employees could car share (388 with more than 10 possible car share matches).
- 104 employees could cycle.
- 2 employees could cycle or walk.
- 1 employee could use public transport.



Travel Plan – Short Term Activity

- Promote existing initiatives that staff advised they were unaware existed (e.g. how to find a car share partner, the availability of Guaranteed Rides Home, local cycle routes etc).
- Implement new 'Quick Wins' including vegetation clearance on foot / cycleways, bike security stamping, bike shop discounts, seek to reinstate bike MOTs, bike repair kit provision, bike repair stations on site etc.
- Relaunch car share scheme in November 2024 in conjunction with Mobilityways – major relaunch to include portal and magazine articles, banners, posters, electronic advertising and animation video.
- Heavily promote active travel in Spring 2025.
- Offer Mobilityways Personal Travel Plans to staff.
- Potential implementation of pilot bus route to Aldermaston railway station.
- Roll out further EV parking spaces across both sites

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Any questions?

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AWE plc Aldermaston, Reading, Berkshire, RG7 4PR

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AWE Infrastructure Investment Update

Sharif Narouz
Programme Director - AWE

Hannah Marsh
Head of Communications - AWE

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Future Materials Campus

Update:
Sharif Narouz, Programme Director
Hannah Marsh, Head of Comms

7 November 2024



Community engagement events update

- Six in-person and two virtual public events between 17 October and 28 November.
- Taking place across the local area.
- Experts from AWE will be attending to answer questions from residents and give information on our work.

Date	Time	Location
17 October 2024	2pm - 8pm	Aldermaston Parish Hall
23 October 2024	2pm - 8pm	Reading Town Hall
4 November 2024	2pm - 8pm	Burghfield Village Hall
9 November 2024	12 midday - 5pm	The Link, Tadley
13 November 2024	10am - 11am	Online event (TBC)
14 November 2024	2pm - 8pm	The Ark Centre, Basingstoke
18 November 2024	2pm - 8pm	Waterside Centre, Newbury
28 November 2024	7pm - 8pm	Online event (TBC)

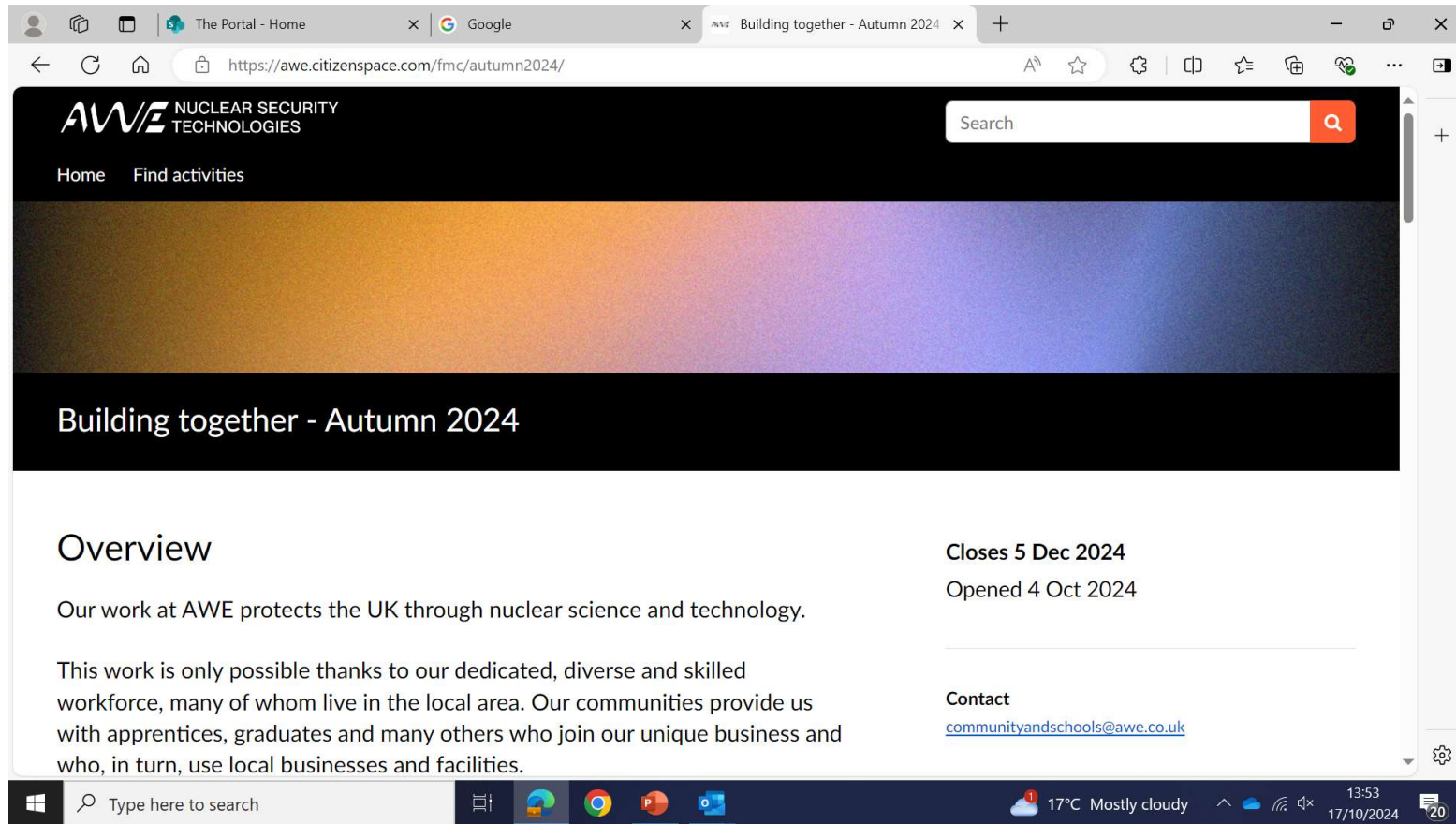
Initial event feedback

- Attendees
- Areas of interest
- Other ways of engaging



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AWE community website



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Getting your ideas

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AWE Estates and Liabilities Update

Richard Doe
Head of Nuclear Services – AWE

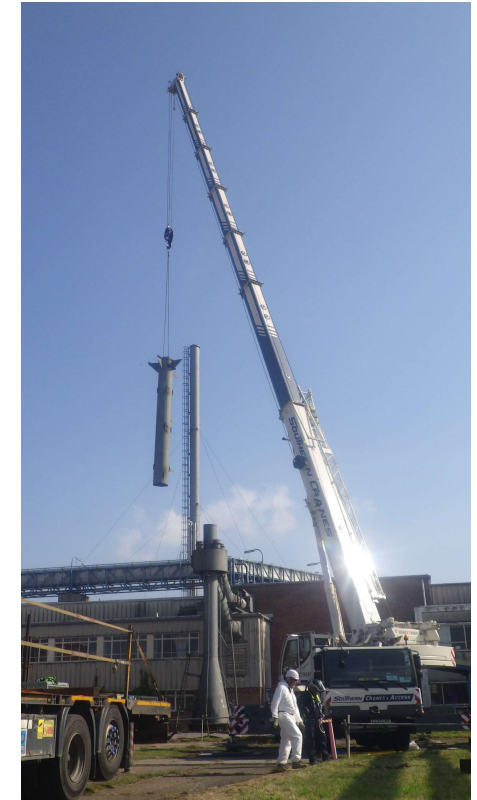
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Updates – Demolition/Dismantling AXXX Stack

The main discharge stack which once served the AXXX laboratory within the Old Waste Management Group area was demolished/dismantled last month.

Having been made redundant when the laboratory ceased operations almost 20 years ago, the stack no longer served a purpose. To reduce risk, it was agreed the demolition of the stack should be progressed ahead of completion of decommissioning activities within its donor facility.

This marks the **fourth** example of safe stack demolition within a high-hazard area.



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Updates - Demolition

DX.X demolition is progressing on schedule; the main building is due to complete during October, with the slab removal and site clearance during November and December. The project is forecast to complete well ahead of the March 2025 milestone date.



Updates Decommissioning Ax.x Glovebox



This Glovebox is the first box to be decommissioned in Ax since 5th Feb 2015.

The glovebox weighed 30 tonnes and contained a furnace, a 30-ton press, a crane, and numerous sealed tins. With the exception of the baseplate, the team size reduced the glovebox into pieces by using scaffolding and hand tools, and ensuring they were small enough to fit into a 205-litre drum with a 160-litre lining.

Decommissioning gloveboxes can be a slow process due to the nature of the activities previously conducted within them. A team of five (or six if working at height) will work on the glovebox simultaneously. Due to suit constraints, each team member can spend up to 2.5 hours at a time working on the glovebox.

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Updates Decommissioning Ax Glovebox



Work has begun on the second glovebox to be decommissioned.

The windows of the glovebox have been removed and the scaffolding is now up.

Recent Events

Community Concerns

- Since the beginning of May 24 there have been 6 calls registered via the Community Concerns Line. These are triaged with 4 being categorised as being not directly associated with AWE operations. In these instances and if possible (some don't leave return contact details or wish to remain anonymous) the callers are advised and if applicable, suggestions made of where they might direct their concerns. Note, some calls are sensitive or personal and covered by GDPR hence not detailed here.
- Several emails received from 1 person relating to heavy traffic on the external roads around the perimeter of the Aldermaston Site. Our Roads and Grounds team were requested to review the on site traffic management arrangements and shortly afterwards the complainant wrote to thank Corporate Affairs for the prompt action taken as the situation had greatly improved.
- A call to the Community Concern Line reported of an alarm sounding at AWE(B) for a protracted period. This was investigated and found to be a faulty storm warning alarm. The issue was resolved to the satisfaction of the caller.

Protestor Activity

- Regular monthly 'Women's Peace Camp' 2nd weekend of each month (one per month)
- No other upcoming planned/known "Protest" activity

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AWE Community Update

Kavita Thandi
Responsible Business Manager - AWE

Sam Earl
Responsible Business Specialist - AWE

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Our Community

Charity partner PACT

Community drop in sessions

Schools' engagement

Increased apprentice intake

Time to Give Volunteering

West Berks Museum exhibition

Community Magazine Connect and Focus

Employee STEM Ambassador network

Sponsorship QMC, sponsored Masters, PhDS AND Post Doctorates

Environmental Orchards, flood protection, wild meadows, solar farms

National STEM Days Ada Lovelace Day, Environment Day

Annual Give a Gift collections



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Our new charity partner - PACT



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Last school year (2023 – 2024) we reached...

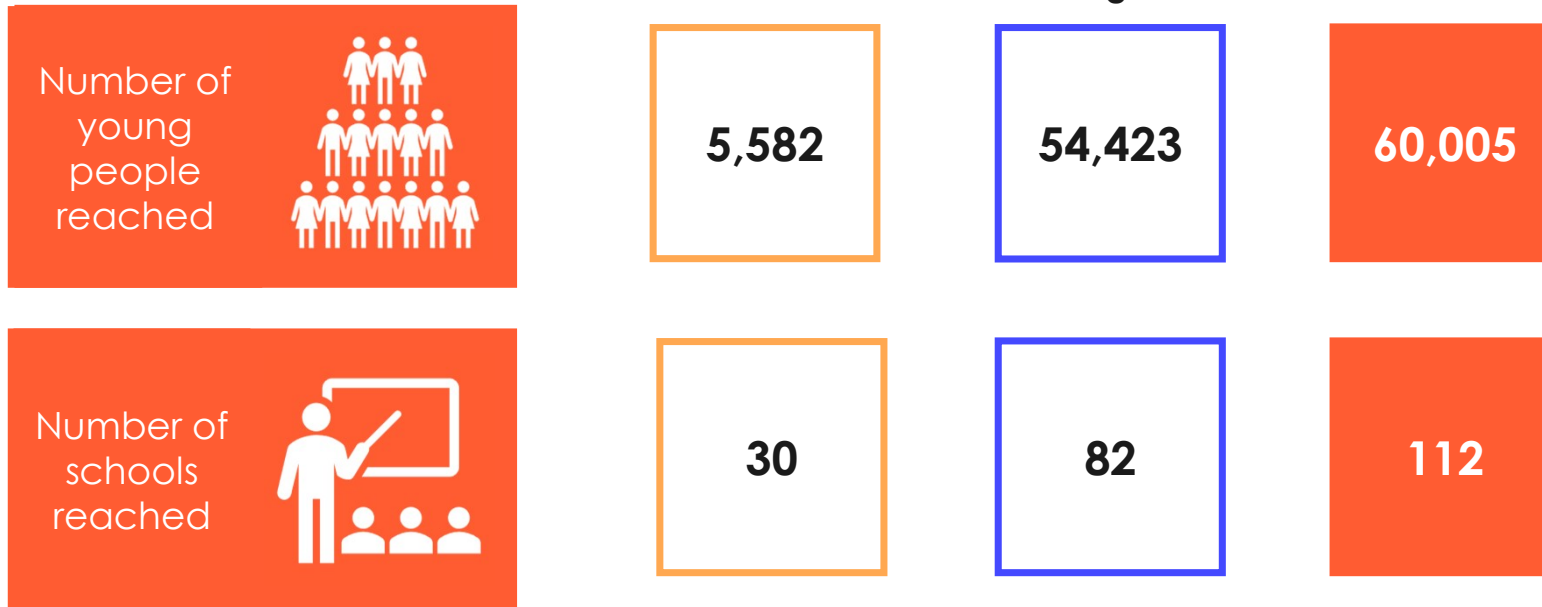


Primary
Schools



Secondary
schools and
colleges

Total



Looking forward – Primary schools

**QMC Primary
Science Centre**

**Primary
Science
Challenge**

**Ada Lovelace
Day (organised
by our gender
balance
working group)**

**Guess My Job
workshops**

**Assemblies
and
presentations**

**People Like Me
workshops**

**Self-service
STEM
workshop kits**



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Lunch – 45 minutes

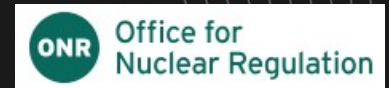
Reconvene at 13.00

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Regulators' Update

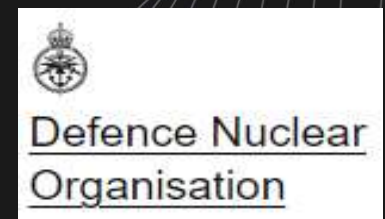
Gareth Lock – Office for Nuclear Regulation



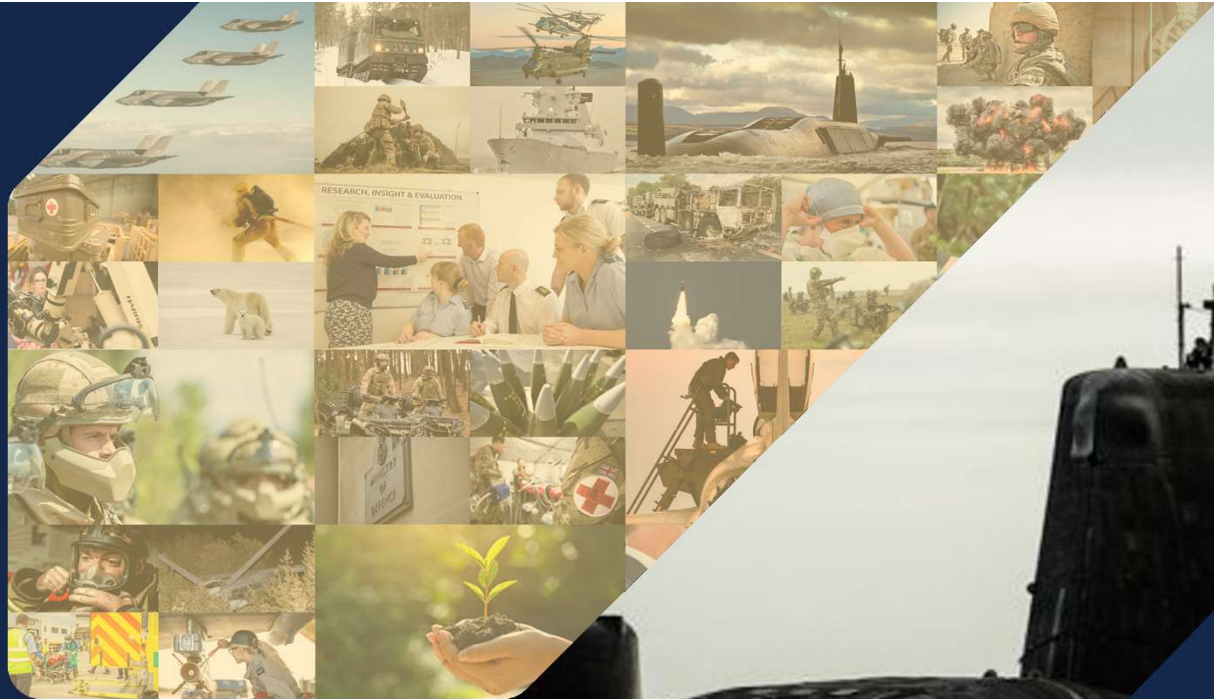
Rob Green – Environment Agency



Karl Pallester – Defence Nuclear Safety Regulator



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DNSR Update

Atomic Weapons Establishment





DNSR Vires

Where there are Disapplications, Exemptions or Derogations (DED) from Statute

- When Class 1 (Explosives) and Class 7 (Radioactive) come together
- Through life safety focus
- Product / process / manufacture focus rather than facility
- ATC / XTC / EPURE





Enforcement

- No Prohibition or Improvement Notices
- 10 x Corrective Action Requirements
 - **ATC** - PSA is incomplete
 - **ATC** - Treatment of fault sequences
 - **ATC** - Incorporate DSA 2B Issue 3
 - **ATC** - Further development of CAE
 - **ATC** - Justify seismic withstand
 - **ATC** - Establish tooling throughput and provision adequate facilities
 - **MENSA** - Strengthen ALARP case
 - **MENSA** - Treatment of fault sequences
 - **CORPORATE** – SQEP of AWE board





Defence Safety Authority

Interventions

July 24 Themed Inspection at XTC – Specifications for the design, manufacture, materials and testing of NW components

September 24 AC17 Compliance Inspection at ATC – Adequacy of arrangements for the assembly / disassembly of NW

September 24 FAC1 Themed Inspection – duty of co-operation between ATC (LCP1) and convoy (LCP2)

Assessment of Level 1 emergency response exercises for AWE (B) May and AWE(A) October – assessed as adequate





Questions

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Environment, Safety, Health & Quality Update

Nick Bolton
Senior Manager ESH Services Delivery

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Personal Safety

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Resulting in:

14 injuries to members of staff

22 people sustained work related injuries in the 12 months to the end of September 2024

17 injured parties required one or more days away from work to recover

454 days lost

0.234 OSHA Rate per 200,000 hours worked

We have applied a US Occupational Safety & Health Administration (OSHA) Classification to injury and illness records so we can benchmark against other UK and US operators who use the system. OSHA also provides a greater range of predefined injury classifications than RIDDOR, so is a better way to track personal injuries.

Process Safety

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Process Safety performance remains at an acceptable risk level. There have been six Process Safety Loss of Control/Containment events raised between 31st March – 30th September 2024. All six events have been investigated and appropriate preventative actions have been put in place. Process Safety training remains a priority and bespoke process safety training is being delivered to Tech Centers commencing with XTC.

The Process Safety Team are also continuing to develop virtual reality training that can be used to raise hazard awareness amongst staff at all levels of the organisation. Phase 1 is complete and has been shared with the Executive. The next stage of Extended Reality delivery is being progressed with XTC with further scenarios being discussed.

Number of Events Notified to the ONR by Calendar Year:

2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
22	25	38	38	37	64	69	61	39	20 to end of September

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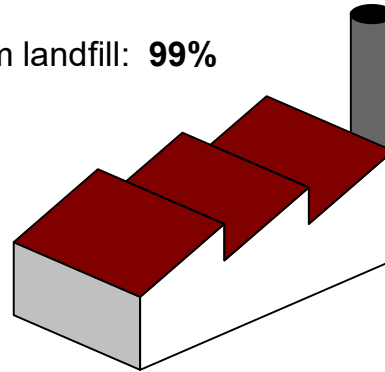
Our Commitment to Protecting the Environment & People

Waste Management

The Environment Management target for diverted from landfill: **99%**
Total waste diverted from landfill: **99.3%**

Nuclear Worker

Annual UK Occupational Dose Limit: **20,000 μSv**
AWE Individual Radiation Dose: **780 μSv**



Discharge to Air

Maximum Dose Aldermaston: **1.8 μSv**
Maximum Dose Burghfield: **< 0.1 μSv**



Trade Effluent

Maximum Dose Aldermaston: **< 0.1 μSv**
Maximum Dose Burghfield: **< 0.1 μSv**



Discharge to Water

Maximum Dose Aldermaston Stream: **< 0.1 μSv**



Direct Dose at Site Boundary

Maximum Dose Aldermaston: **11 μSv**
Maximum Dose Burghfield: **indistinguishable from natural background**

Radiation dose put into context:

Annual UK non-occupational radiation dose is 2,700 μSv .
This is the average level of radiation dose that a person resident in the UK will receive each year from background sources of radiation.

Assessed public dose put into context:

A dose of 10 μSv (microsieverts) is comparable to that expected to be received from eating a 100g bag of Brazil nuts.

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AWE Emergency Planning and Response Update

Scott Davies Hearn
Senior Manager Emergency Response - AWE

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Recent Events

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- **We are pleased to report that the Level 1 Exercise run on 8 October 2024 was assessed as an ‘adequate’ demonstration of our Emergency Response Arrangements by our regulators. Adequate is the ONR term used for a successful demonstration.**
- A Level 1 exercise is a major exercise required by our regulators to demonstrate our site emergency response arrangements to address the consequences that could occur from an emergency on our sites. Our Aldermaston and Burghfield sites are required to run these annually.
- The exercise focused on an emergency in one of our radioactive material facilities and a simulated release of material from that facility.
- This included casualties who required rescue, treatment, monitoring and decontamination; a simulated release of radioactive material offsite and associated implementation of public protection processes
- A wide range of responders participated including our Fire and Rescue Service, Ministry of Defence Police, Paramedics, Safety Shift, Health Physics, RPAs, Emergency Managers, Facility Staff, Security, West Berkshire District Council, Duty Site Manager and a full suite of Subject Matter Experts from across the business.
- Our CEO and other Exec members joined us to observe the exercise.
- Some initial highlights were:
 - Strong command and control in all areas.
 - Wider use of JESIP – Joint Emergency Services Interoperability Principles.
 - Good understanding and awareness of risks and hazards.

Recent Events

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- **On May the 14th the AWE Burghfield Level 1 exercise was completed which also was assessed as an ‘adequate’ demonstration of our Emergency Response Arrangements by our regulators.**
- This exercise focused on an emergency in one of our radioactive and explosives material handling facilities.
- This included casualties who required rescue, treatment, monitoring and decontamination; management of a simulated fire and fire spread prevention, hazard and consequence analysis.
- A wide range of responders participated including our Fire and Rescue Service, Ministry of Defence Police, Paramedics, Safety Shift, Health Physics, RPAs, Emergency Managers, Facility Staff, Security, Duty Site Manager and a full suite of Subject Matter Experts from across the business.
- Some highlights were:
 - Strong responder monitoring and contamination assessments
 - Continued deployment of JESIP

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On-going Activities

- Continued support to WBDC in respect to the Off Site Emergency Plan (OSEP).
- Attendance at the Off Site Plan Working Group
- Co-delivery of briefings to Schools as part of the awareness program with WBDC in respect to AWE and the Off Site Emergency Plan
- AWE internal REPPIR reviews in accordance with regulatory renewal periods.

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AWE Uncrewed Vehicle System Team Update

Matt King - AWE

Harry Hatfield - AWE

Kadri Hamit - AWE

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Who are the UVS Team?

- Established in 2018 as a proposal to bring Drones (UAV now UVS) to AWE sites.
- Proof of concept completed, and team given the go ahead to grow organically early 2021
- 2021-2023 team expands to 2 full-time members and 3 support pilots
- 2023 recruited 2 new full-time members

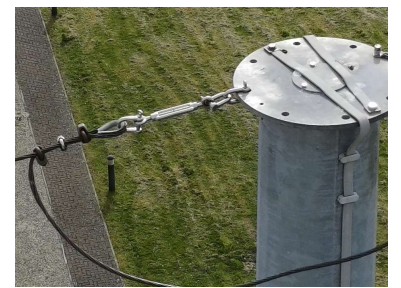
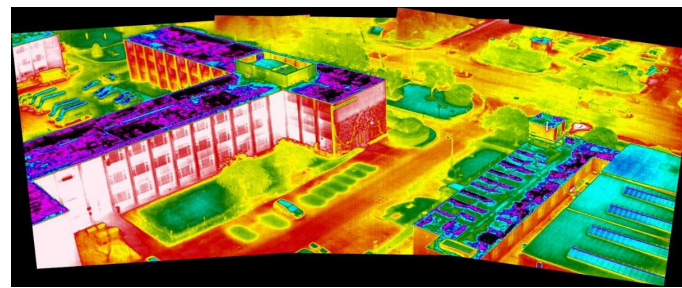
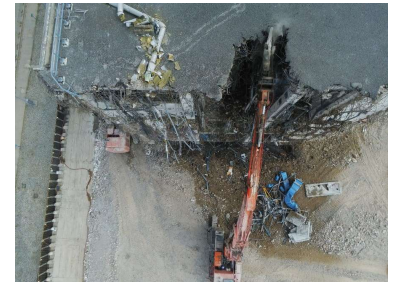
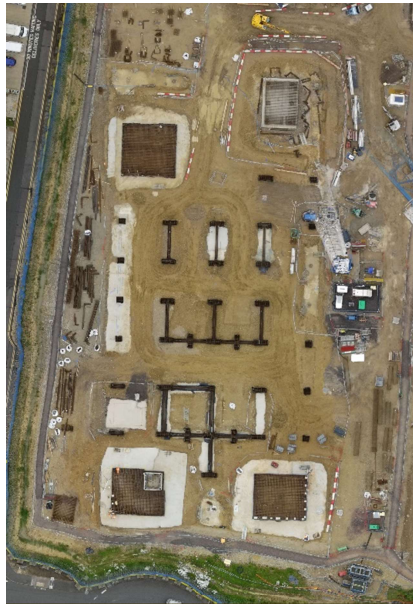
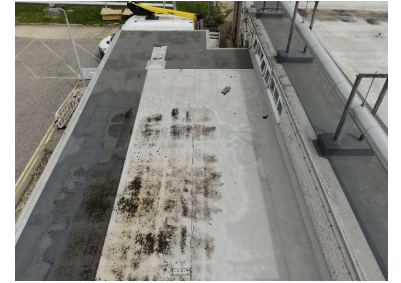
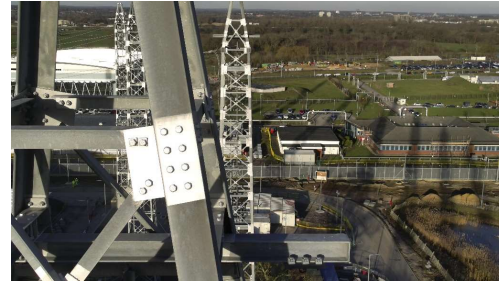
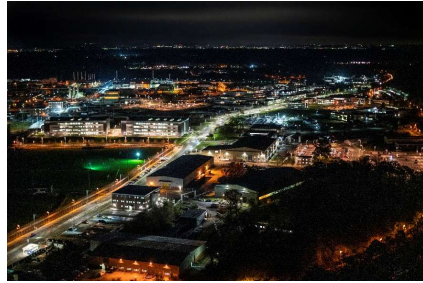
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Our Equipment



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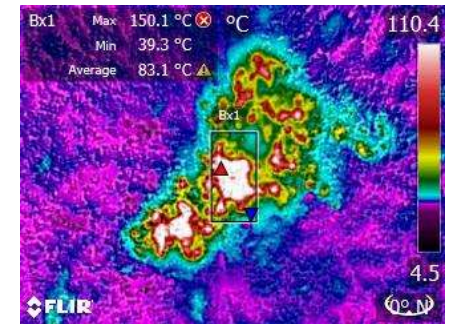
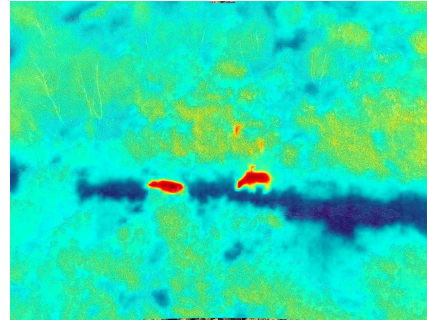
Uses at our Sites



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Uses in our Community as part of our Volunteering initiative 'Time to Give'

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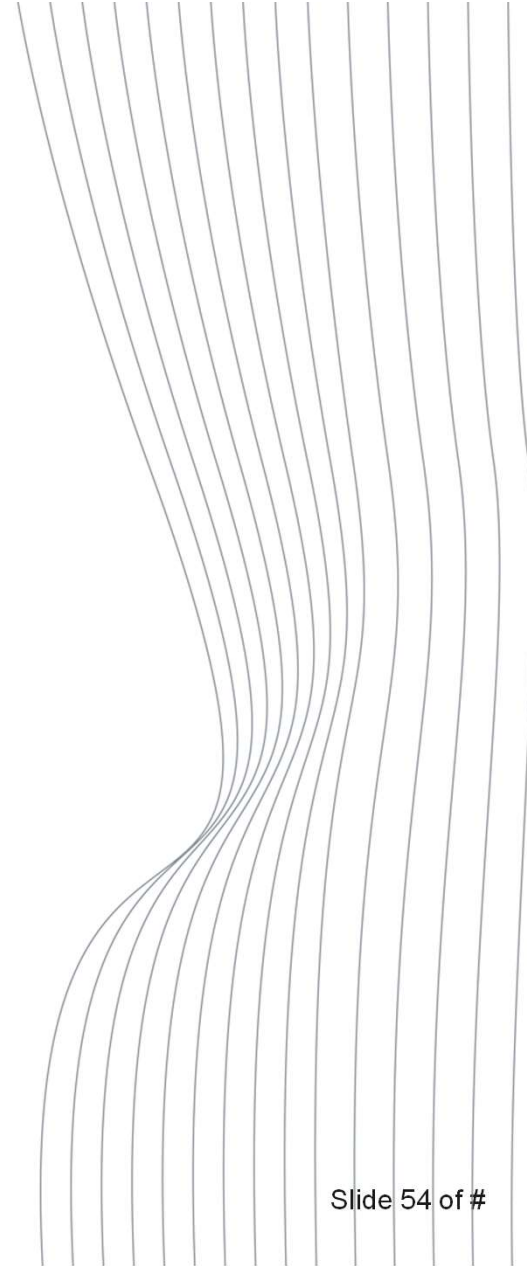


Future Operations

- Completion of mapping our sites
- More ground-based inspections
- More internal inspections
- More collaboration (UK and US)
- Volunteering support for LLC
- Cleaning of building windows and cladding across our sites
- Working closer with emergency services and response teams



Questions?



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AWVE NUCLEAR SECURITY
TECHNOLOGIES

Any Other Business

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Next Meeting Date

111 LLC

Thursday 24th April 2025

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