

**MINUTES OF THE QUARTERLY MEETING OF THE
SIZEWELL A & B STAKEHOLDER GROUP (SSG)
HELD AT THE VILLAGE HALL, YOXFORD
ON THURSDAY 11TH SEPTEMBER 2014 AT 10.00**

PRESENT

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| Cllr M Fellowes | - Aldeburgh Town Council <i>SSG Chairman</i> |
| Mr M Taylor | - Suffolk Coastal Friends of the Earth <i>SSG Deputy Chairman</i> |
| Cllr D Bailey | - Leiston-cum-Sizewell Town Council |
| Mr C Betson | - Leiston Business Association |
| Mr T Branton | - Co-opted Member |
| Mr J Carey | - Sizewell A Staff Representative |
| Mr D Foy | - Sizewell B Staff Representative |
| Ms J Girling | - Co-opted Member |
| Ms T Green | - representing Dr T Coffey (MP for Suffolk Coastal) |
| Cllr M Jones | - Aldringham-cum-Thorpe & Knodishall Parish Councils |
| Cllr S Robertson | - Westleton Parish Council |
| Cllr N Smith | - Middleton-cum-Fordley & Eastbridge and Theberton Parish Councils |
| Cllr R Smith | - Suffolk County Council |
| Mr C Tucker | - Sizewell B Staff Representative |
| Mr P Wilkinson | - Co-opted Member |

IN ATTENDANCE

| | |
|-------------------|--|
| Dr C Barnes | - Suffolk Coastal District Council |
| Ms M Barnes | - EDF Energy Communications |
| Mr M Cubitt | - Sizewell B Plant Manager |
| Dr L Franks | - SSG Clerk |
| Mr D Gregory | - Office for Nuclear Regulation Sizewell A Inspector |
| Mr P Hetherington | - SSG Secretariat |
| Mr W Hamilton | - Nuclear Decommissioning Authority |
| Insp A Hill | - Civil Nuclear Constabulary |
| Mr C Mann | - Sizewell A Plant Manager |
| Mr S Parr | - Environment Agency – Sizewell B |
| Mr A Pynn | - Environment Agency – Sizewell A |
| Mr J Roberts | - SSG Secretariat |
| Mrs N Rousseau | - Sizewell B Community Liaison Officer |
| Sgt D Thompson | - Civil Nuclear Constabulary |
| Mr T Watkins | - Sizewell A Site Director |

MEMBERS OF THE PUBLIC

| | |
|-----------------------------|--------------------------------------|
| Mr C Barnett | - Shut Down Sizewell Campaign (SDSC) |
| Mr D Green | - East Anglian Daily Times |
| Mr T Griffith-Jones | - Campaign Against Nuclear Expansion |
| Ms J Lovell | |
| Mr R M ^{ac} Gibbon | |
| Cllr A Middleditch | - Yoxford Parish Council |

And other members of the public

CHAIR'S OPENING COMMENTS

2346 Chair welcomed all attendees, provided domestic arrangements and asked all speakers to introduce themselves.

I PUBLIC FORUM

2347 Mr Barnett introduced himself as speaking on behalf of the Shut Down Sizewell Campaign (SDSC) and drew attention to the SDSC newsletter. He expressed dismay that he was not being kept properly informed by the SSG regarding the integrity of the Sizewell B Reactor Pressure Vessel, particularly now that the two Belgian reactors have again been stood down. He referred to a letter he had sent to the Chair on 2nd August and questioned why no response had been received. He demanded, as a matter of social justice, that the Chair respond to the concerns raised on behalf of the SDSC. He asked if he should go to the Nuclear Decommissioning Authority (NDA) if no response was received.

2348 Chair apologised if Mr Barnett had not received the information, explaining that the SDSC newsletter and letter to the ONR had been sent to all members to enable the SSG to agree a response when discussing this matter on the Action Tracker. She advised that emails were sent to Chris Ure for the attention of Mr Barnett and when receipt of these was questioned, **Chair agreed to check with Mr Ure the safe receipt of emails in the future.** Chair added that listening and responding to the public was taken very seriously by the SSG, describing this as a key objective. She reminded attendees that they were able to pose questions and concerns via the SSG representatives as well as speak in person during the public forum. Chair also advised that Mr Hamilton from the NDA was present and could also be contacted separately.

2349 Mr Barnett reiterated his concern for the integrity of the Sizewell B RPV's. He advised that new tests were being undertaken on the Belgian RPV's and that the company that had provided the materials used to manufacture the Belgian RPV's had also supplied materials for 22 other RPV's worldwide. He provided additional written information to the Chair and it was **agreed that this would be scanned and circulated to all members.**

2350 Mr M^{ac}Gibbon drew attention to paragraph 2247 of the AGM minutes (05.06.14.) regarding a living wage at Sizewell B and asked for an update. Chair advised this was on the Action Tracker under 2248. Mr D Foy, UNITE Secretary of the Sizewell Energy branch, advised that some progress had been made with this matter and that an agreement had been signed within the last two weeks that agreed that Hinkley C site will be a 'living wage' site and that negotiations continue for the Sizewell B site. Mr M Cubitt reinforced this comment advising that UNITE, Sizewell and Aramark are continuing negotiations to rectify this situation.

2 APOLOGIES FOR ABSENCE & DECLARATIONS OF INTEREST

2351 Apologies for absence were received from Dr T Coffey (represented by Ms T Green), Mr T Cooper, Cllr T Hodgson, Ms P Hogan, Cllr W H Howard, Mr G Moorcroft, Cllr A Nunn and Mr D West.

2352 No additional Declarations of Interest from SSG members were advised (appendix 1). Chair advised that she had received a request from Dr Coffey that all speakers declared their interests prior to addressing the SSG. Written Declarations of Interest will also be requested from representative bodies. Ms Girling sought clarification of whether this included members of the public and Chair advised that if agreed, this should be applied to all those addressing the meeting, including officers. Chair to meet with Dr Coffey to discuss her concerns.

3(a) MINUTES OF THE SSG MEETING HELD 05.06.14. AND REVIEW OF THE ACTION TRACKER

- 2353 The minutes of the Annual General Meeting of the SSG held on 5th June 2014 were agreed as an accurate record subject to the following agreed amendments:
- Spelling and citation of Tom Griffith-Jones to be corrected.
 - Para 2284 to be amended: Dr Coffey clarified that she would not object to the individual co-option of Mr Griffith-Jones, was using her personal judgement as an MP to make these decisions and that she was opposed to CANE membership of the SSG because they were against nuclear expansion and that was not the remit of the SSG.
 - Para 2283 to be amended: Mr Wilkinson suggested that Sizewell C was not inevitable.
 - Para 2281 to be amended: Chair reminded attendees that the SSG considered potential new build when this impacts upon the existing Sizewell sites or their local communities. She added that there was a separate Sizewell C forum facilitated by EDF Energy and Chaired by an independent person appointed by EDF Energy (amended at the request of Tom McGarry, EDF).
- 2354 Chairman reminded attendees of the rationale for the Action Tracker and responded to a written enquiry from Dr Coffey to explain that the individual or the body accepting an action would be identified on this document to facilitate progress.
- 2355 Mr M Taylor questioned why his enquiry regarding RIMNET monitors detailed in para 2256 did not appear on the Action Tracker and heard that this had been combined with a later more detailed enquiry about these monitors in Action 2326. Chair advised that Mr A Osman had not been in a position to answer this matter at the special meeting held 10.09.14. and had **agreed to provide a written response** instead.
- 2356 PW questioned how open actions were pursued and when the current open actions would be closed. PW also questioned why an action for Public Health England no longer appeared as an open action. Chair drew attention to the action for Simon Bouffler (2131), a representative of PHE, which remained open. She advised that members vote on the decision to close actions and that all closed actions remain on the electronic version of the action tracker and could be re-activated with members' agreement. Chair responded that it may take some time to receive a response to agreed actions and that ownership for the action remained with the body accepting the action but that the secretariat and the Chair do chase responses.
- 2357 PW sought clarification that **questions posed regarding the dry fuel store would be added to the action tracker once the minutes from the special meeting had been reviewed by the Chair and this action was confirmed.**
- 2358 Cllr N Smith asked if a timeframe could be placed on following up outstanding actions and that when actions were pursued that the action tracker reflected this. Chair agreed to undertake more stringent follow-up. Mr T Watkins suggested that a timeframe for an action could be agreed at the same time the action itself was accepted. Chair concurred that an expectation of timeframe could be requested.
- 2359 Chair advised that, currently, progress on actions had to be via the SSG secretariat but that the hope for the future was to have a live document to enable updates from those accepting the action.
- 2360 Ms Green advised that Dr Coffey had enquired whether technical problems with the NDA website had been resolved and had offered to write to Magnox regarding this. Chair drew attention to the Action Tracker and read out the updates. **Mr Roberts added that he would circulate a single URL to lead members to the SSG pages on the NDA website.** Chair advised that the ownership and design of the NDA website had changed and that the SSG continue to work with Magnox and the NDA to facilitate improvements. Ms Girling

commented that the NDA website was difficult to navigate and that historical documents were not available. Chair concurred that some of the archive was not available but reassured that this would be retrieved. Mr Hamilton explained that the website had come on line sooner than planned due to malicious attack of the old website and that the new website was still being improved with matters, like the transfer of archive documents, due for completion by the end of this year. He cautioned that further changes could be expected to ensure that this conforms in future to the new Government design. **Chair took an action to raise this matter at the National Stakeholders Group meeting in October.** JG expressed concern about the wider issues of the Government enforcing changes to websites and suggested that **Dr Coffey enquire about the policy and rationale for changing Government websites and for the SSG specifically.** Chair concurred.

3(b) MINUTES OF THE SSG SUB-GROUP MEETING HELD 17.07.14.

- 2361 Chair reminded attendees that this meeting had focussed on the Dry Fuel Store (DFS) and invited comments about accuracy and matters arising.
- 2362 PW advised that he felt that some of the questions he had posed had not been recorded and were not evident in the action tracker. He advised that he had circulated a copy of these questions to SSG members. Chair clarified that if a question posed had been answered during the course of the meeting that this was not carried forward as an action, citing questions and actions from para 4.06. Chair added that, in conjunction with the secretariat, she had double-checked the questions circulated by Mr Wilkinson against the questions recorded in the minutes and the action tracker for those that were not answered. Mr Wilkinson thanked the Chair for undertaking this.
- 2363 Ms Girling advised that she had received a satisfactory response from Nick Cofield regarding the conditions for constructing Sizewell B (section 4.07) but questioned whether this had been circulated to members. Chair advised that a full hard copy had been requested that included plans not included in the electronic copy, adding that this was a weighty document that would be made available to members to view. **It was noted that the action to provide the hard copy was outstanding.**
- 2364 Mr Taylor sought clarification of whether the term 'fuel assemblies' was synonymous with 'fuel elements' and this was confirmed. He added that there was an array of 17 x17 fuel rods in each fuel assembly.
- 2365 Cllr Bailey drew attention to section 4.07 regarding who funds the maintenance of the DFS and how secure the funding is. Mr Hamilton advised that funding was from the Nuclear Liabilities Fund (NLF) and that if EDF Energy were no longer in existence then a new licensee would be sought. The role of the NDA was to ensure appropriate funding was held within the NLF. PW suggested that the public would pay. This was refuted by Mr Hamilton who stated that the NLF is funded from the industry. PW suggested that the fund was insufficient. **Chair agreed to take an action to ask the NDA how the calculations were made for contributions to the NLF and the forecast of anticipated costs.**
- 2366 Mr Taylor referred to section 4.06 where the maximum heat load of each flask to be placed in the DFS was detailed as 24KW. His understanding was that the maximum heat load for casks to be stored in the proposed Geological Disposal Facility was 1.16KW. Mr Taylor questioned what the local impact would be of the heat released. Mr Cubitt reminded attendees that the build up of casks in the DFS would be slow and controlled and that the impact of heat loss on buildings near the DFS had been taken into consideration in the safety case. Chair added that this was subject to scrutiny prior to being licensed for use.

3(c) SUMMARY OF SPECIAL MEETING HELD 10.09.14.

2367 Chair reminded attendees that this meeting had focussed on the Off-site Emergency Plans. She provided a verbal summary advising that there had been a good attendance with lots of questions raised following presentations from:

- Dr Hamid Mahgoub (HM), Consultant, Public Health England
- Dr Mary Orhewere (MO), Consultant in Public Health, Public Health Suffolk
- Mr Andy Osman (AO), Head of Emergency Planning, Suffolk County Council
- Supt Paul Sharp (PS), East Area Commander, Suffolk Constabulary
- Mr Gareth Thomas (GT), HM Inspector, Office for Nuclear Regulation
- Mr Tim Watkins (TW), Site Director Sizewell A
- Mr Jeremy Western (JW), Director of Special Projects, EDF Energy

A statement had been circulated from DECC. Approximately two thirds of the time was spent on questions and answers. Mr Osman had limited time and subsequently offered to address the SSG again if further questions arose. Several questions await written answers (See Action Tracker 2108 et seq).

2368 Mr Taylor expressed disappointment that a representative from DECC had not attended this meeting adding that as they direct national nuclear planning that they were the right body to ask about matters like changes to the REPIR requirements. Chair advised that their statement did advise that REPIR was under review. With members support (7 For, 0 Against, 8 Abstentions) **Chair agreed to write to DECC to thank them for the statement and request that a representative attend a future SSG meeting to answer questions arising.** Chair requested any suggested wording from members via email. Chair asked that **Dr Coffey enquire about the progress on the revision of REPIR by DECC.**

2369 PW expressed his disappointment that the statement previously prepared by the SSG about emergency planning appeared to have been ignored. He reiterated the view that the DEPZ should be extended post Fukushima to a reasonable size and that those within that DEPZ should be given all the information they need to evacuate in an emergency. He advised that the reference accident accommodated a small DEPZ and that a less likely accident, but of high impact, will be covered by extendability. He advised that this was in direct contravention of what the SSG recommended and to his view of what a sensible precautionary approach would be. He concluded that the industry did not want to advise the 10 of thousands of people that would be affected that they might need to evacuate. Chair suggested that the SSG statement should be reconsidered when questioning DECC. Chair concurred that the majority of people want to extend the provision of information rather than wait until an event arose that required an extension to the provision of this information. PW advised that DECC have been sent the SSG statement three times already. Chair added that she had asked previously, without joy, for a DECC representative to attend the SSG national meetings. **Chair to raise at National SSG.**

2370 Chair called for a vote to approve the Minutes, accept corrections and approve changes to the actions arising:

- SSG AGM 05.06.14.: 12 For, 0 Against, 2 Abstentions
- Sub-group special meeting 17.07.14.: 8 For, 0 Against, 7 Abstentions

The vote for the sub-group special meeting held 10.09.14. to be carried forward to the next full SSG meeting to enable members to consider the written minutes.

4 MONITORING FOR RADIOACTIVITY IN FOOD

2371 Chair advised that this item had been postponed.

The meeting paused for a short break at this point.

5. STEAM VENTING AT SIZEWELL B

- 2372 Mr Busby introduced himself and made a Declaration of Interest that he belonged to Transition Lavenham, part of a small group looking at energy systems for the village, and was also a technical advisor to the Stop Hinkley campaign. He provided a presentation, "Sizewell B Steam Venting", and it was noted that the slides had been circulated prior to the meeting to all members. A diagram to explain the primary and secondary circuits and the formation of steam within the latter to drive the generator was described in detail.
- 2373 Mr Busby highlighted the following:
- Primary circuit contains fissile particulates, calcium, magnesium and silicon oxide which are activated by the radioactivity in the reactor. Boric acid is also added as a neutron absorber.
 - Tritium, an isotope of hydrogen, is produced in the primary circuit. This is very reactive and able to permeate steel so is likely to be found in the secondary circuit.
 - Any leaks in the pipework for the primary and secondary circuits would enable transfer between these systems. More than 5000 pipes within the circuits.
 - When the reactor is shut down a decay heat (6-7% of total heat) remains.
 - Decay heat was responsible for the melt down of the Three Mile Island number two reactor and Fukushima reactors.
 - Decay heat falls away rapidly but needs appropriate management and with mains power this process requires no steam venting.
 - If grid connection is lost this may cause a station blackout and standby generation will be needed within 1 hour. Steam venting will be needed to cool the system.
 - Mains cooling and seawater pumps from standby generation is impractical.
 - Due to the high temperature (300°C) and high pressure (155atm) of the water, steam is produced as 'flash' steam at the moment of releasing the pressure.
 - Tritiated steam condenses into water droplets that are 25,000 times more potent than gaseous contact.
- 2374 Mr Busby concluded that detection of activated particulates in the steam was impractical, that leaks between the two circuits would be masked by the addition of feedwater, that steam venting was essential if the mains supply failed and that condensed tritiated steam was produced during steam venting. He recommended that a simple means of detecting leaks should be established by monitoring the presence of Boron in the secondary circuit, that monitoring for tritiated water should be undertaken in the area under vented steam plumes and that detailed records should be kept of the duration and wind direction during steam venting.
- 2375 Speaking on behalf of EDF, Mr Tucker advised that Mr Busby had raised these issues on site and that detailed discussions had taken place at that time to counter the concerns raised. Mr Tucker advised the following (see Appendix 2 for full response):
- there are no fissile particulates in the primary circuit
 - decay heat reduces rapidly over 3-4 hours to 1%
 - the accidents described resulted from hydrogen explosions and not decay heat
 - standby generators exist if there is loss of mains power but these are not required to cool the plant. The one hour requirement does not apply.
 - natural circulation is a feature of all steam generators and has been previously demonstrated as adequate.
 - leakage of the primary circuit is detected by monitoring of the top up tank volume. Even small leaks are immediately obvious.
 - secondary circuit contains 1 million times less tritium than the primary circuit and is at levels similar to that found in drinking water
 - Secondary circuit chemistry is monitored
- Mr Tucker concluded that occasional steam venting from Sizewell B does not present a radiological hazard to the workers at the station or to the public.

2376 Chair thanked Mr Busby and asked Mr Tucker to provide a written summary of his comments for circulation. Chair asked Mr Busby to consider this summary and reply to some of the questions it raised, for example why it was important to provide standby generation within one hour. Mr Busby explained that this time was derived from an incident in Chicago. He questioned how leaks from the primary circuit could be detected and Mr Tucker replied that it was from the control tank levels. Mr Busby stated that the local community would be reassured by monitoring under the steam plume after a steam venting event. Chair concluded by advising that **all members would receive the written summary from Mr Tucker and Mr Busby's written response. Chair undertook an action to forward these with the presentation to the regulatory agencies for comment.** Mr Griffith-Jones asked if the presentation could also be sent out again and this was confirmed.

6. SIZEWELL B REPORT

2377 Martin Cubitt introduced himself as the Plant Manager at Sizewell B and drew attention to the written report dated Sept 2014. He provided a presentation that covered the following points:

- Safety: 1121 days since last EDF Energy lost time incident, 881 days since last contractor lost time incident, 1388 days since last nuclear reportable event and 1566 days since last environmental reportable event. Site safety remains at an excellent level.
- Staff: 528 staff and 37 apprentices. 250 year round contracting partners.
- Reactor Coolant Pump Motor maintenance: occurred 26.07.14. to enable top of lubricant oil. An upgraded seal will be deployed during the outage to address this issue long term.
- Outage 13: up to 13,000 tasks in addition to refuelling the reactor and Japanese Earthquake Response (JER) improvements. Turbine 1 will be shutdown 12.10.14. to after 07.12.14. with larger items of work to include generator transformer phase exchange x3, generator protector scheme replacement, gas insulated switchgear refurbishment and 3x low pressure rotor replacements. Turbine 2 will shut down 17.10.14. until after 26.11.14. to enable repair the governor valve and replacement of the fire resistant fluid (used to operate the hydraulic system that controls the turbine).
- Japanese Earthquake Response (JER) improvements: several described including connecting to the back-up equipment in the emergency response centre
- Dry Fuel Store: Work underway with main concrete pours to start end of September
- Emergency Response Centre: tour arranged for 24.09.14. at 18.00
- Staff & Community News: details provided of monies raised for charity and used for local sponsorships. Visitor Centre has now had more than 5000 visitors.

2378 Mr Branton asked if the low pressure turbine work was routine maintenance or to improve efficiency. Mr Cubitt advised it was the former.

2379 Mr Branton asked if the top up of the lubricant oil was in the same reactor coolant pump as when this was previously reported and this was confirmed.

2380 Mr Wilkinson asked if a list of the volume and nature of the gaseous and liquid discharges during the forthcoming outage could be provided to the SSG and Mr Cubitt **agreed to take this as an action.**

2381 Mr Wilkinson asked whether it was feasible to undertake any of the work required to inspect the RPV during the forthcoming outage. Mr Cubitt advised that the planning and preparation for this was already in place for the 2016 outage.

- 2382 Mr Cubitt addressed the question of integrity of the Sizewell B RPV in the light of the standing down of the Belgian reactors raised during the public forum by explaining that the Sizewell B RPV was not manufactured in the same facility as that used to produce the two Belgian RPV's. Mr Cubitt suggested **re-circulating the information previously sent last November that explained this and Chair agreed**. He added that EDF Energy continue to be aware and monitor the situation in Belgium.
- 2383 Mr Taylor asked whether this outage would enable completion of the JER improvements and this was confirmed.
- 2384 Mr Taylor asked how the stress and tiredness levels of staff working long shifts during the outage would be monitored and mitigated against. Mr Cubitt advised that the number of working hours would be monitored to ensure this did not exceed the working time directive. Staff working abnormally long hours would be asked to complete risk assessment forms and those working extended hours would be offered a lift home.
- 2385 Ms Girling asked how many additional people would be working on site and heard this would be 1200 at the peak. Ms Girling asked if these were local people and heard this was a mixture of local people and specialists sourced worldwide. Ms Girling asked whether accommodation had been sourced for all workers and heard that contract companies usually arrange accommodation well in advance of the outage. **Mr Cubitt agreed to take an action to check that this had been undertaken.**

7. OFFICE FOR NUCLEAR REGULATION (ONR) REPORT

- 2386 Chair advised that the ONR Sizewell B Inspector, Mr Moorcroft, had given apologies and that questions arising from his report (dated 01.04.14. – 30.06.14.) would be taken during item 11 when the ONR Inspector for Sizewell A, Mr Gregory, would address the meeting.

8. ENVIRONMENT AGENCY REPORT

- 2387 Mr Stuart Parr, Environment Agency Sizewell B Inspector, drew attention to his report and invited questions. He referred to the Action Tracker and advised that he **would provide a combined response to item 2324 and 2219 regarding estuarine and seawater monitoring by the end of September**. With regard to item 2325, he verbally responded by stating that the 'relevant parts' of the DFS were the parts of the safety case that were within the regulatory powers of the EA and **agreed to provide a full written answer**.
- 2388 Chair invited questions and comments and none were forthcoming.

9. SIZEWELL A REPORT

- 2389 Mr Watkins reported on recent activities at the Sizewell A site, referring to a written report dated September 2014 previously circulated. The following points were noted during the presentation:
- **Safety Performance:** a serious industrial accident was sustained 29.07.14. The individual hurt during the accident is making good progress having sustained a fractured eye socket, fractured ribs and two areas of pressure on the brain. Full recovery is anticipated. Investigation ongoing with diagrams used to explain the circumstances of this fall from height. Three levels of inquiry from the Health and Safety Executive, an external Board of Inquiry and the contracting group employing the injured person.
 - **Safety Investigation:** the James Reason Swiss Cheese Model was described as a series of barriers that when breached lead to events (cultural, engineered, process, supervisory and individual actions). This model will be used to help the site learn from the recent accident.

- People: Clive Pullen the previous Plant Manager died recently after a year fighting cancer.
- Achievements: last flask was dispatched 06.08.14. ahead of the target set by DECC.
- What happens next?: process to verify fuel-free status ongoing with validation by ONR expected by December 2014. Reduction in Magnox staff by circa 80 by March 2014. Revised emergency arrangements with CNC no longer required. Asbestos removal ongoing for at least another year. Dismantling of the pile cap, decommissioning the cooling ponds and expanding a low level waste processing facility are all current ongoing projects.
- Cavendish Fluor Partnership: new PBO in place since 1st September. Pete Knollmeyer, MD, to address this meeting. Values of Magnox and Cavendish Fluor align.
- Community: Socio-economic fund requests invited. Local sponsorships described.
- Heritage: Industrial heritage display in a pop-up shop in Leiston and, thereafter, donated to the Long Shop museum.

2390 Ms Girling passed on her sympathies for the accident and congratulated the site for completing defuelling. She commented on the industrial heritage of the area advising that the Engineers Arms has re-opened as a community pub, just opposite the Long Shop museum. She suggested that the station may like to liaise with both the Long Shop museum and the Engineers Arms and Mr Watkins asked **Mr Hetherington to take this action.**

2391 Mr Foy advised that the injured person was a member of UNITE and that the union had liaised closely with him. Mr Foy thanked Mr Watkins for the manner in which the site staff had responded to the incident initially and the exemplary support provided to the individual thereafter.

2392 Chair invited questions and none were forthcoming.

10. CAVENDISH FLUOR PARTNERSHIP (CFP)

2393 Mr Pete Knollmeyer introduced Kelly Duane, Communications Director, and himself as the Deputy Managing Director of CFP. He advised that the share transfer had been signed on 01.09.14. between Magnox, RSRL, NDA and CFP to enable the latter to undertake the role of parent body organisation to the site licence companies. Mr Knollmeyer shared the presentation already provided to Magnox staff (to be circulated separately). The following points were noted:

- Closure: 13.5 year programme to close sites
- Environmental, Health, Safety, Security and Quality: ethos for zero accidents; a 'just' rather than a blame culture that determines the root cause; focus on security
- CFP: 65% Cavendish, 35% Fluor; experience and background of each described.
- Governance and Organisational Structure: PBO has zero new employees, all are drawn from Cavendish, Babcock or Fluor. 36 new employees to the Magnox and RSRL companies have been seconded for a minimum of 3years from the PBO. Structure and Governance described.
- Transition: 4.5 month transition period used to ensure appropriate levels of experience, training and understanding.
- Costs and Schedule: pledge that cost reductions will not be achieved by taking wages or benefits away from employees

- Mission: all sites into Care and Maintenance with a workforce that delivers good value to the taxpayer. Opportunities for redeployment of workforce within Cavendish, Babcock, Fluor, new build companies or severance as preferred.

2394 Chair thanked Mr Knollmeyer and invited questions and comments. None were forthcoming.

11. OFFICE FOR NUCLEAR REGULATION (ONR) REPORT

2395 Mr Daniel Gregory, ONR Sizewell A Site Inspector, drew attention to his written report (dated 01.04.14. – 30.06.14.), reminded attendees that the investigations into the accident were ongoing and invited comments and questions. No questions for the ONR Inspectors from either site were forthcoming. Chair reminded the meeting that several questions for the ONR had arisen at the special emergency planning sub group meeting held yesterday evening.

12. ENVIRONMENT AGENCY REPORT (EA)

2396 Mr Andy Pynn, Environment Agency Sizewell A Inspector, clarified that the EA had now fulfilled their action to comment on the Tim Deere-Jones report (action 1911 on the Action Tracker) and this was confirmed by the Chair. Mr Pynn drew attention to the written report dated September 2014 and invited comments and questions. None were forthcoming.

13. NUCLEAR DECOMMISSIONING AUTHORITY REPORT

2397 Mr Bill Hamilton drew attention to the monthly updates provided for June, July and August and offered his congratulations to Magnox for completing defueling in advance of the DECC target. He commented in particular upon the following:

- Magnox and RSRL Competition: Share transfer to the Cavendish Flour Partnership (CFP) on 01.09.14. completes the round of competitions for all NDA sites.
- National Stakeholder Group Event: 29.10.14. followed on 30.10.14. by the Radioactive Waste Management Ltd (RWM) stakeholder event. RWM is the wholly owned subsidiary of NDA responsible for the search for the Geological Disposal facility.
- NDA Strategy: statutory responsibility to renew this every 5years following a period of consultation. An early start on this will be made at the national stakeholder event on 29.10.14. with presentations at subsequent SSG meetings and the national stakeholder meeting in 2015. The period of formal consultation will start towards the end of 2015 with adapted strategy published April 2016.

2398 Chair advised she had been unable to attend the share transfer event and the meeting with the NDA the following morning, however, had made the NDA aware of SSG concerns regarding the off-site emergency plan extendability, the dry fuel store, potential new build and the introduction of the 'Bright Tribe' Academy locally. Chair advised she had received a reply from Jonathan Jenkin dated 09.09.14. (see Appendix 3) and invited questions and comments from attendees. Mr Taylor expressed concern that the SSG had limited information about Bright Tribe and what this may mean for local schools.

2399 Chair questioned whether the NDA felt that it was appropriate for the SSG to hold agencies to account. Mr Hamilton confirmed that a key part of the SSG constitution was to hold the site to account and as such it was incumbent to hold all of the agencies with responsibility for the site to account and that included not only the operators but also the regulatory bodies. Chair explained that this question had been raised by Dr Coffey.

14. CHAIR'S REPORT

2400 Chair advised she had failed to bring this to the meeting and a full report covering the past year will be provided at the next meeting (Action 2344).

15. ANY OTHER BUSINESS

- 2401 Chair reported that a request for co-option of Tom Griffith-Jones had been received. She advised that co-options could be considered at any full SSG meeting providing at least 6 weeks notice had been given, that intention to consider any request did not have to be on the agenda and that two co-opted member vacancies currently exist. Chair invited Mr Griffith-Jones to introduce himself and address the attendees.
- 2402 Mr Griffith-Jones provided a brief summary of his intention to hold the nuclear power industry to account and referred to his address at the AGM on 05.06.14. Chair reminded the meeting that he had attended several previous meetings as a member of the public and called for a vote regarding his co-option: 3 For, 3 Against, 3 Abstentions. Chair used her casting vote to support the co-option and advised that this co-option would now be in place until the AGM in 2015.
- 2403 Ms Girling requested that a list identifying attendance rate of SSG members at meetings was collated and considered by members. Ms Girling expressed concern that those member bodies whose representatives did not attend or provide a replacement were not being kept informed of the work of the SSG. Chair commented that records were kept but not made public and offered to contact those members that regularly were unable to attend meetings to see if anything could be done to enable improved attendance. Ms Girling suggested that this list could be considered at the AGM and should identify when the individual had been unwell. Chair suggested direct contact with member bodies if their representative had not attended a meeting. A vote was called to **approve the collation of a meetings attendance record, for the Chair to action contacting non-attendees and to directly contact those member bodies who had no representative at a meeting: 7 For, 0 Against, 2 Abstentions.** This motion was carried.
- 2404 Dr Robertson questioned whether the meeting was still quorate and Chair confirmed that this was the case. She expressed concern that these matters requiring voting were being dealt with so late in the proceedings.
- 2405 Cllr Bailey expressed concern that co-option was considered late in the meeting without any prior notice. He advised he had no previous knowledge of the newly co-opted member. Chair reminded him of the presentation provided at the AGM, and in the minutes of that meeting that Mr Griffith-Jones stated that he intended to apply.
- 2406 Cllr Bailey questioned why some of the reports for this meeting were only circulated two days ago and requested that they were sent out earlier. Chair advised that the bulk of the documents were sent out two - three weeks in advance of this meeting and that late reports were a compromise between having current information and enough time to consider the details prior to the meeting. Chair added that two years ago members often did not have copies of the presentations until after the event. Cllr Bailey asked for reports seven days in advance. **Chair undertook to review the process.**
- 2407 Mr Branton asked that a future sub-group meeting considered the running order for the main meetings. He suggested that it was important that the site reports were considered fully and as such should be moved to earlier in the meeting agenda. This also enabled the public to hear these reports without having to attend for several hours. Chair explained that early review of the minutes often answered questions that would be otherwise arising. Chair also suggested holding more frequent meetings to enable each to be shorter. **Chair agreed to take this to a sub-group for discussion.**

Meeting closed at 13.40

Next Quarterly SSG meeting:

9.30am for 10am meeting start on Thursday 4th December 2014 at Leiston Film Theatre

Appendix 1: Declarations of Interest from SSG Members

Cllr Bailey:

- Receives a pension from the Electricity Supply Industry

Mr Betson:

- Station guide at Sizewell B
- Volunteer ranger – National Trust
- Member – RSPB

Mr Branton:

- Receives a pension from the Electricity Supply Industry

Cllr Fellowes:

- Councillor for Aldeburgh Town Council
- Conservative District Councillor for Aldeburgh and Aldringham and Thorpeness.
- Member of RSPB and National Trust

Mr Foy:

- Secretary of UNITE Energy Branch based at Sizewell covering A, B and newbuild sites.

Ms Girling:

- Chairperson of Campaign Against Nuclear Expansion (CANE)
- Secretary of Together Against Sizewell C (TASC)
- Member of RSPB, Suffolk Wildlife Trust, National Trust, Greenpeace and Friends of the Earth (Suffolk Coastal and National)

Cllr Hodgson:

- Receives a pension from the Electricity Supply Industry

Cllr Howard:

- Councillor on Leiston-cum-Sizewell Town Council
- Member of the Campaign Against Nuclear Expansion (CANE)
- Member of Together Against Sizewell C (TASC)

Cllr Nunn:

- Vice Chairman of Suffolk Coasts and Heaths AONB Joint Advisory Committee

Cllr Plant

- None

Cllr Robertson:

- Takes lodgers employed at the sites

Cllr N Smith:

- None

Mr R Smith

- None

Mr Taylor:

- Member of Suffolk Coastal Friends of the Earth
- Member of the Campaign Against Nuclear Expansion (CANE)
- Member of Together Against Sizewell C (TASC)

Mr Tucker:

- None

Mr Wilkinson:

- Advisor to the Campaign Against Nuclear Expansion (CANE)
- Associate of the Nuclear Waste Advisory Associates
- Consultant to the Office for Nuclear Regulation
- Member of the UK Government's Geological Disposal Implementation board.
- Acting Chairperson of Together Against Sizewell C (TASC)

Appendix 2: Full response from Mr C Tucker, Sizewell B Staff Representative:

We do NOT have *fissile particulates* in our primary circuit. Fissile material is only in the fuel pellets. Other particulates are cleaned out of the water by CVCS.

Decay Heat is around 6% immediately after a reactor shutdown, but it falls very quickly to around 1% after just 3-4 hours. Fukushima did not explode due to decay heat, these were Hydrogen explosions. Sizewell B has been designed to cope with hydrogen after a fault and this resilience is being improved still further by the introduction of Passive Autocatalytic Recombiners (PARs) during the next refuelling outage. PARs are designed to remove hydrogen from the air in the reactor building with no need for electrical supplies.

Sizewell B has never experienced a loss of grid connection however, grid supplies are not guaranteed and so we prepare in the event that they could be lost. A 'Station Black-Out' is a much less likely event as it would also require co-incident independent failure of each of the Station's four 8MW Essential Diesel Generators.

Even so, if a Station Black-out were to occur, this large standby generation is not required to safely shutdown and cool the reactor at Sizewell B. The Station's design includes:

- Steam-driven Auxiliary Feedwater pumps
- Battery-backed Control & Instrumentation (backed-up by separate Battery Charging Diesel Generators).
- Air-powered valves (backed-up by Nitrogen accumulators) to control water flow

We do not need sea-water cooling for any of this equipment – in particular the Auxiliary Feedwater Pumps have no sea-water-cooled condensers.

Natural Circulation is a perfectly adequate heat removal mechanism for the reactor and is a 'built-in' feature of a PWR design. We demonstrated natural circulation during commissioning, but it is not something we would do deliberately.

Sizewell B has multiple radiation monitors capable of detecting the very lowest levels of leakage that could occur across the Steam Generator tubing; bear in mind, that there is a significant pressure difference between the Primary and Secondary systems, so leakage paths are readily apparent.

Added to this we can easily detect any imbalance in water levels or flows. Water moving into the feedwater system from the Primary Circuit would be immediately revealed by a fall in level in the associated Volume Control Tank. This would be obvious to the operators. Secondary circuit water is routinely analysed, however boron would be a significantly less sensitive indicator of leakage than that provided by other instrumentation, so this is not routinely measured.

Sizewell B does not have Steam Generator Tube 'leakage'.

Tritium in the form of Hydrogen gas can diffuse through the Inconel 690 Steam Generator tubing but only at a very low rate. The amount of tritium in the feedwater is one millionth of the amount in the Primary Circuit. This means that, typically, it is around the level of the limit for drinking water in the UK (1% of the WHO limit).

Tritium in the Secondary circuit is at ~1/millionth of the Tritium in the Primary circuit. This puts it at ~ same level as that allowed for drinking water in the UK (1% of the WHO limit). Even being on the roof of the power station, close to where steam is being vented, it is only possible to inhale a tiny amount of water in the form of vapour. This may be higher in tritium than drinking water but of course it is vanishingly small compared with the volume of water that we all drink on a day-to-day basis.

For all of these reasons, it is clear that occasional steam-venting from Sizewell B, (sometimes necessary for operation of the plant) cannot present a radiological hazard to the public or to the workers at the station.

Appendix 3: Email from Jonathan Jenkin

From: Jenkin, Jonathan [jonathan.jenkin@nda.gov.uk]
Sent: 09 September 2014 21:30
To: marianne fellowes
Cc: Sizewell SSG; Paul Hetherington
Subject: Response to SSG Chairs' Meeting Update

Dear Marianne,

Thank you again for your email, which I have copied below. I am sorry that you were unable to make it on this occasion. Everyone who attended agreed it was a very constructive day with dialogue conducted in a spirit of openness and trust.

We were all very grateful for your comments on the successful removal of spent fuel from Sizewell A and I know your sentiments will be appreciated by Magnox. Defueling is a crucial hazard reduction milestone on the path to Care and Maintenance and to have achieved it ahead of schedule is testament to the professionalism and commitment of the Sizewell workforce.

We all share your concern for the contractor who was injured following a fall from height and our thoughts remain with him and his family.

I can confirm that this year's national event will be held in Birmingham at the Marriot Forest of Arden Hotel from 28th to 30th October. We were conscious of the very positive feedback on last year's successful event at Bradwell and did consider hosting this year's event at another NDA site. However, there were a number of other considerations, including the imminent review of the NDA Strategy, the publication of the Government's White Paper on implementing geological disposal and the need to allow Cavendish Fluor Partnership (CFP) adequate time to settle in as the new Parent Body before agreeing to support such a large event. So this year we have agreed to host a joint stakeholder event with Radioactive Waste Management (RWM). The proposed itinerary is as follows:

| | |
|-------|------------------------------------|
| 28/10 | NDA-hosted dinner for stakeholders |
| 29/10 | NDA national event |
| 29/10 | RWM-hosted dinner |
| 30/10 | RWM stakeholder event |

I am aware of concerns about the Office of Nuclear Regulation's (ONR) decision on the Detailed Emergency Planning Zone (DPEZ) for Sizewell. My understanding is that the ONR's decision did not take into account the planned Sizewell B Dry Fuel Store because permission has not yet been granted for the store to operate and inactive commissioning of the store is not schedule to start until 2015. Furthermore, I understand that the ONR has said that it will reassess the risk in accordance with the Radiation (Emergency Preparedness and Public Information Regulations 2001) (REPPOR) if and when permission is granted and that it has agreed to write to the SSG to clarify the timescale for any review of the DPEZ.

I note the more general concerns about the planned operation of the Sizewell B Dry Fuel Store. The NDA inherited certain contractual obligations in respect of the reprocessing and storage of EDF Energy's spent AGR fuel at Sellafield but these obligations do not extend to spent fuel from Sizewell B, which is a Pressurised Water Reactor (PWR). The NDA has regular dialogue with EDF Energy and is always happy to raise matters of concern to our stakeholders. However, stakeholder consultation related to the nuclear new build programme at Sizewell is clearly outside the NDA's remit and you will need to raise the Group's concerns with EDF in the first instance.

Finally, I am waiting to receive more information about the NDA's involvement with Bright Tribe Academy. However, I understand that it relates to a socio-economic initiative in West Cumbria and am not aware of any relevance to Suffolk.

I hope this response helps to address some of your concerns and that you have a good meeting on Thursday.

Best wishes,

Jonathan

Dear Bill

Please use this for the report from Sizewell SSG.

"In August we saw an important milestone reached with the complete removal of fuel from Sizewell A, ahead of target time and following years of dedicated work by Magnox/Energy Solutions staff and with the support of the NDA.

Unfortunately earlier in the month a contractor was injured following a fall from height. Our thoughts continue to be with him, his family and the staff who have been affected. We await news from the investigation.

As usual we have been busy - in addition to our four full SSG meetings we held several additional sub group meetings (open to all members of the SSG but to progress matters under consideration in more detail through presentations and discussions in public or prepare consultation responses) and hosted public meetings. For further information please see the Minutes and Executive Summary of each meeting.

Please can information be provided regarding the venue/date of national SSG meeting and potential topics for agenda.

Off site emergency plan:

Despite extensive consultation and hard work by the SSG to represent the views of the local community the ONR has proposed an overall reduction in DEPZ (because spent fuel has been removed from Sizewell A) but has confirmed that their assessment did not include the Dry Fuel Store at Sizewell B (as this is not commissioned as yet by the ONR) although it has been given planning consent and is being built currently! We remained concerned as the plan will not be reviewed when/if the Dry Fuel Store begins to take spent fuel. *So how can you reduce a plan based on fuel being removed and not increase it when fuel is being stored again?? The local community is also concerned about the provision of information (especially to the significant numbers of visitors) and the practicality of any evacuation along rural routes. Public sub group meeting being held on 10th September.

Dry Fuel Store at Sizewell B:

Although the planning permission was accompanied by a small section 106 payment this was awarded to environmental projects in the Area of Outstanding Natural Beauty so therefore excluded the town of Leiston. The community served by the SSG did not volunteer to host this spent fuel waste store (which will remain until a national GDF solution is available) and there is a strong view that compensation should be provided similar to the model used for the GDF. If the Dry Fuel Store had not been built Sizewell B would have had to cease operating as no provision exists at Sellafield to store or reprocess spent fuel so we are contributing to support the national need. We believe this is an NDA issue as it is about spent fuel management and relates to the post operating phase of the site.

Bright tribe Academy:

Is NDA involved in discussions regarding a new academy locally within its role of supporting training and social economics ? We understand that NDA funding may be provided for a project with EDF and a private educational company but no information has been provided to the SSG/local community.

Communications with EDF:

We were concerned to hear of the failure of EDF to communicate fully at Heysham, Hinkley and Hartlepool.

Locally we are expecting the next phase of consultations regarding potential new build sometime towards the end of 2014 but communities are very concerned with months of activity between EDF and the local Councils (through un-minuted officer workshops which are considering proposed infrastructure options) that when announced we will have very little time or resources to respond appropriately. Many of the 'preferred options' put forward by EDF are not supported locally, with viable alternatives discounted outright by EDF. The Forum - formed by EDF to which representatives of local parish, district and county council representatives and organisation representatives are invited, only meets when EDF has something to tell us, and the Chair was appointed by EDF.

We ask for NDA assistance with these urgent matters as we have no relationship with which to progress these issues with DECC. We would also ask that an urgent meeting is arranged with Magnox sites who have potential new build, NDA and DECC."

Regards
Marianne Fellowes
Chair of Sizewell SSG

Jonathan Jenkin

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