

Proposed Sustainable Energy Plant at Brunner Mond, Lostock, Northwich, Cheshire

Supplementary Environmental Information

Addendum to Environmental Statement

(to be read in conjunction with the Environmental Statement dated February 2010)

on behalf of

Brunner Mond and E.ON Energy from Waste UK Limited

Prepared by:



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1 Introduction & Purpose

- 1.1 This report contains Supplementary Environmental Information to accompany the application for a sustainable energy plant at Lostock, Cheshire. The original application was submitted on behalf of Brunner Mond in association with E.ON Energy from Waste UK Ltd, to the Department of Energy and Climate Change (DECC), under Section 36 of the Electricity Act 1989, in February 2010. The application also requests deemed consent under Section 90 of the Town and Country Planning Act 1990. The supplementary information contained in this report should be read in conjunction with the Environmental Statement (ES) dated February 2010 as submitted with the original application.
- 1.2 Since the original submission a number of changes have been made to the scheme as a result of continuing design and engineering refinements. In addition it was considered desirable to submit additional environmental information to improve the understanding of likely significant environmental effects of the development. Some of the changes have brought about by representations received after the first consultation exercise. In some cases the information is new and additional to that submitted in the original ES, and in others it replaces and alters the information in the original ES.
- 1.3 Drawings and other material providing details of these changes are now submitted for consideration by DECC, Cheshire West and Chester Council as the relevant planning authority, and other consultees.
- 1.4 The changes can be summarised as follows:
- New and comprehensive set of application drawings (superseding the originals) recording, amongst other things, the following changes:
 - An addition to the existing red line application boundary to accommodate an additional or alternative construction lay-down area (Figures P/5002 Rev-)
 - Adjustments to building sizes for the plant (see Figures 16384/A1/P/5105 Rev-, 16384/A0/P/5107 Rev-, 16384/A1/P/5110 Rev-, 16384/A1/P/5111 Rev-, 16384/A0/P/5112 Rev-, 16384/A0/P/5113 Rev-)
 - An increase in the length and height of the ash handling facility (Figures 16384/A2/P/5106 Rev-, 16384/A1/P/5108 Rev-, 16384/A1/P/5115 Rev-, 16384/A1/P/5116 Rev-, 16384/A0/P/5117 Rev-, 16384/A0/P/5118 Rev-)

- The addition of a staircase tower to the main plant buildings and alterations to both towers (Figures 16384/A1/P/5105 Rev-, 16384/A0/P/5107 Rev-, 16384/A0/P/5113 Rev-)
- An alteration in the configuration of the air-cooled condensers (Figures 16384/A1/P/5105 Rev-, 16384/A0/P/5107, Rev-, 16384/A0/P/5125 Rev-)
- The rearrangement of internal access roads and hardstanding (Figures 16384/A1/P/5100 Rev-, 16384/A1/P/5102 Rev-, 16384/A1/P/5105 Rev-)

1.5 These changes were discussed with DECC to establish whether they would be prepared to accept them as amendments to the original submission. DECC confirmed that these changes could be dealt with by way of amendment. Other documents are also submitted as part of this exercise but are not intended to form part of the environmental information associated with the ES. These include the following:

- Revised Supporting Statement (supersedes original Planning Supporting Statement)
- Carbon Assessment Report (new and additional)
- Response to Representations Report (new and additional)
- Revised Design and Access Statement (supersedes original)
- Revised Non Technical Summary (supersedes original)

1.6 Other documents which formed part of the original submission, including the Statement of Community Involvement, Human Health Risk Assessment, Health Impact Assessment, and Heat User Study, remain unchanged.

1.7 This report follows the same chapter numbering system as adopted in the original ES. This should enable the reader to more easily track the changes now made to the scheme and any changes to the original assessments of significance. For completeness, even if no changes have occurred in any topic-based chapter, that chapter is still included in this document for consistency.

1.8 Certain generic changes to the proposal have been made which should supersede any others referenced in any other document or plan submitted as part of the original submission. These include:

- The new red line application boundary, the area of which has increased from 9.2 ha to 10.57 ha (see Figure 1 of this report)
- A new set of application drawings, that now use a new numbering system referred to as the '5000' number series. Unlike the original set where the last number in the figure reference started with '0', the new drawings will begin with the number '5' in order to distinguish them from the original set (even where no physical change to the drawing occurs). In addition the original revision references to the plans have been cleared; one will now only see 'Rev-' on the new set of drawings.

1.9 Where any inconsistency is found in the original or revised/new documents or plans, these generic changes now take precedence.

2 The Site and its Setting

Changes to Chapter 2 of ES

- 2.1 The text of the February 2010 ES that requires amendment as a result of the changes to the proposed development is identified by paragraph number. The paragraphs listed below should now read as follows:

Paragraph 2.13

- 2.2 “In addition to the main site identified for the SEP, the project also includes land to the east of the canal, between the canal and Griffiths Road. This is intended to be used as a temporary construction laydown area. This land is currently unused but allocated for employment (B2 & B8) use in the Vale Royal Borough Local Plan, First Review Alteration, 2006 (saved policy E5, site E5.1). It measures 1.84ha. As an alternative or in addition to this land, another site has also been identified for use during the construction phase for laydown purposes. This site is located immediately to the west of the internal access road and measures 1.37 ha and is intended to provide flexibility as to the location and size of site available for laydown purposes. This site is an area of hardstanding and has in the past been used as a site compound. A further area of land to the north of the main site would be used for the relocation of the existing coke store.”

3 Description of Development

Changes to Chapter 3 of ES

- 3.1 The text of the February 2010 ES that requires amendment as a result of the changes to the proposed development is identified by paragraph number. The paragraphs listed below should now read as follows:

Paragraph 3.4

- 3.2 “The application site, as shown in Figure P/5002 Rev-, occupies an area of approximately 10.57 ha. This includes the following components:
- Main SEP site, including Ash Handling Facility and Rail Reception Facility: 6.4ha;
 - Construction laydown areas: 3.27ha;
 - Relocated coke store: 0.9ha.”

Paragraph 3.4

- 3.3 “A further 3.27ha of land in two parcels, one to the east and one to the south have been identified for temporary use for construction laydown areas.”
- 3.4 Table 3.2 after paragraph 3.12 should be replaced with the following table content:

Table 3.2: SEP Building Dimensions

Building	Height (m)	Length (m)	Width (m)
Fuel Reception Hall (UEA)	17	39	45
Fuel Storage Building (excludes adjacent Combustion Residue Handling Building (20mx32mx31m and reduced in height to 16m)	36	32	54
Boiler House and Switchgear Building	48 (with adjacent stairwell 50m)	51	45
Flue Gas Treatment Building	43 (with adjacent stairwell 45m)	56	35
Steam Turbine	24	35	22
Air Cooled Condenser	22	131	12

Paragraph 3.14

- 3.5 “The Ash Handling facility would be located to the south west of the main SEP site adjacent to the rail connection. This building would be approximately 46 x 89 m with a height of up to 24m.”

Paragraph 3.63

- 3.6 “The balance between office and plant workers and shift patterns has yet to be precisely determined. However, for the purposes of the ES it assumed that the plant would have five shift teams. It is assumed that 25 of the 50 employees would be office staff and the remainder plant staff. The working pattern is assumed to be as follows:

There are 5 different groups of shift workers and there are a total of 3 shifts a day:

- Shift Group 1 – Working from 0700-1500 with a total of 5 staff
- Shift Group 2 – Working from 1500-2300 with a total of 5 staff
- Shift Group 3 – Working from 2300-0700 with a total of 5 staff
- Shift Group 4 – Rotating with other shift groups on days off with a total of 5 staff
- Shift Group 5 – Rotating with other shift groups on days off with a total of 5 staff.”

Paragraph 3.72

3.7 “Further details are provided in Chapter 8 and at Figure 8.21 Rev B”.

4 Need and Alternatives

Comments on Chapter 4 of the ES

- 4.1 It is noted and understood that the Regional Spatial Strategy (RSS) for the North West Region is now no longer applicable and this is dealt with more fully in the revised Supporting Statement that accompanies this additional documents submitted to DECC. However, for historical context and reference no change is proposed to the narrative on the RSS in paragraphs 4.29 to 4.30 in Chapter 4.

5 Environmental Assessment Methodology

Changes to Chapter 5 of the ES

5.1 No change proposed.

6 Transport

Changes to Chapter 6 of the ES

- 6.1 As a result of an assumed change in shift pattern and split between office workers and plant workers (refer to paragraph 3.6 above), a further traffic modelling analysis was undertaken to establish whether any of the previously reported assessments of traffic impacts would change. The study reporting on this issue can be found at Appendix 1 to this report. It should be regarded as supplementary information to the original ES chapter.

Summary of findings

- 6.2 It is concluded that the assumed change in staffing will not have a significant effect on the operation of the site access junction that is shown to operate well within capacity in all situations. The Middlewich Road arm of the Middlewich Road junction, that has previously been shown to operate above capacity in the future year both without and with the development flows, is shown to experience an increase in queues of 2-3 vehicles during the busiest period of the AM peak hour as a result in the changed assumptions about staffing. This is not caused by the development adding any new traffic to this arm of the junction but the increase in passing traffic reduces the opportunities for vehicle to turn out of Middlewich Road. This level of queue increase is not considered to be material. No other movements at this junction are shown to be adversely affected by the change in staffing.
- 6.3 The A556 arm of the A530/A556 roundabout that has been shown previously to operate above capacity in the future year both without and with the changed staffing assumptions is shown to experience a maximum increase in queues of 2 vehicles during the PM peak hour. This level of queue increase is not considered to be material. No other movements at this junction are shown to be adversely affected by the change in staffing. It is concluded that the changed assumptions about staffing do not materially affect the conclusions drawn previously about the impact of the proposed development on the operation of junctions on the local highway network.

7 Air Quality

Changes to Chapter 7 of the ES

- 7.1 Following a series of queries from third parties concerning potential cumulative effects of emissions from other similar plants in the region, RPS undertook further assessment work to address the issues raised.
- 7.2 This report provides a quantitative assessment of cumulative air quality effects associated with emissions from existing and proposed energy from waste (EfW) facilities. It should therefore be read as a supplementary document to the original ES chapter 7.
- 7.3 Only EfWs have been considered within this latest assessment due to the number proposed within the area. Facilities with the potential for cumulative air quality effects have been identified at:
- Viridor - Bedminster (permission for this facility was granted by Cheshire County Council on 2nd May 2008)
 - Sita - Ince Marshes (permission for this facility was granted by the Secretary of State in May 2008); and
 - Ineos Chlor - Runcorn (permission for this facility was granted by the Department for Business, Enterprise and Regulatory Reform (BERR) on 16th September 2008);
 - Covanta - Middlewich.(permission for this facility was refused by Cheshire East Council in April 2010)
 - RRS - Wincham (permission for this facility was refused by Cheshire West and Chester Council (CWACC) on 17th June 2010);
- 7.4 In the original ES, only the Viridor site had been considered cumulatively. The detailed assessment that addresses these cumulative effects is contained at Appendix 2 to this report. The original Chapter qualitatively considered the cumulative affects within 15 km of the Lostock SEP. The latest report quantifies the cumulative air quality effects associated with emissions from existing and proposed Energy from Waste Facilities at Wincham, Runcorn, Bedminster, Ince Marshes and Middlewich. It should be noted that at the time of writing this addendum report, both the Viridor and Covanta proposals had been refused planning permission but have been included in this assessment nevertheless.

Summary of findings

- 7.5 For each of the EfWs the location of high PC has been found. For each of these locations the cumulative PC in the opening year of 2015 calculated. The results indicate that PECs are considered to be “neutral” significance for most of the pollutants; the exceptions are annual-mean HCl, SO₂, NO₂ and hourly NO₂, which are of “minor adverse” significance.
- 7.6 The cumulative effect of the combined stacks have been modelled as a grid across the immediate area and are visualised as contours in Figures 1 to 7. The contours show that the highest ground level concentrations from each facility occur at different locations and do not overlap.
- 7.7 Annual-mean NO₂ and PM₁₀ concentrations have been predicted for emissions from all the facilities and the traffic generated by the operation of the Lostock SEP in the opening year 2015. Annual-mean NO₂ and PM₁₀ concentrations are predicted to be below the AQS objectives.
- 7.8 For SO₂ and N deposition, the highest Lostock SEP PC was predicted to be below 1% of the relevant EQS at all sites within the assessment area and can therefore be considered insignificant. Consequently, cumulative effects have not been investigated.
- 7.9 The modelling of the cumulative NO_x emissions demonstrated that the PEC would be less than the EQS at Plumley Lime Beds SSSI (the only site where the Lostock SEP PC was >1% of the EQS). Therefore, no significant cumulative impacts as a result of NO_x emissions are predicted.
- 7.10 While the Lostock SEP maximum PC NH₃ exceeded 1% of the relevant EQS, the predicted increase over the already elevated background levels was very low (0.5%). Therefore, the contribution from the Lostock SEP to this increase is considered negligible and no significant impacts are predicted.
- 7.11 The Lostock SEP maximum PC acid deposition was >1% of the relevant critical load at several sites across the assessment area. However, the only site where the Lostock SEP PC contributed significantly to already elevated background loads (i.e. where the Lostock SEP PC was >1% of current background) was at Plumley Lime Beds SSSI, which, due to its calcareous nature will be insensitive to acid deposition. Therefore, no significant cumulative impacts as a result of acid deposition are predicted.

8 Landscape and Visual Resources

Introduction

8.1 This addendum report provides details of how the landscape and visual effects assessment in Chapter 8 of the original ES have changed. It should be read in conjunction with the original chapter and replaces certain paragraphs and figures as detailed below.

8.2 The detail of changes to the design and layout of the proposed Sustainable Energy Plant (SEP) are included in Chapter 3 of this report. In summary the changes to the submitted application and ES include:

Alternative Construction and Laydown Area

8.3 An alternative or additional area of land is proposed south west of the main site area to accommodate an alternative construction laydown area. This area is approximately 1.37 ha of existing redundant land.

Ash Handling Facility

8.4 There is a slight increase in height from 22m to 24m with some external and aesthetic design changes to the ash handling facility.

Main SEP Plant

8.5 The Combustion Residue and Handling building is reduced in height by 16m and a staircase tower to the height of approximately 50m is added next to the Boiler House and Switchgear building.

Access and Surface Finishes

8.6 There are slight changes to the internal access, circulation and surface finishes. The area of gravel proposed around the sprinkler tanks and adjacent to the east elevation of the main building would become tarmacadam.

Air Cooled Condensers

8.7 The configuration of the air cooled condensers is changed from two groups of six and four to two groups of five and five.

Sprinkler Tanks

8.8 There is a slight change in location of the sprinkler tanks.

- 8.9 In landscape and visual terms these design changes are considered of minor consequence and would not affect the overall appearance and massing of the proposed SEP. The overall assessment of effects remains the same.

Changes to Chapter 8 of ES

- 8.10 The text of the February 2010 ES that requires amendment as a result of the above changes is identified by paragraph number and the paragraphs listed below should now read as follows:

Paragraph 8.46

- 8.11 'The building comprises a series of connected simple rectilinear forms, clad in metal sheeting, with a maximum main roof height of 48m and a narrow staircase block to a height of approximately 50m.

Paragraph 8.53

- 8.12 'An additional or alternative construction and laydown area is proposed to the south west of the main project site on an area of redundant land.'

Paragraph 8.55

- 8.13 'The site area totals approximately 10.57 hectares and comprises four linked areas. An alternative or additional laydown area would be accessed from the main site area and is located on an area of redundant land to the south west.

Paragraph 8.111

- 8.14 'Construction activity on the alternative laydown area would be concealed by intervening vegetation from Griffith's Park.

Paragraph 8.117

- 8.15 Walkers and people engaged in leisure pursuits would gain near open views of the SEP during construction focussing on the construction site, laydown areas, construction activities and high level crane activity. 'The alternative construction laydown area is closest to this viewpoint and located around and beyond the pylon to the left of the view. The intervening land form would conceal lower level construction activity on the alternative laydown area.'

Changes to Figures

8.16 The Figures within the ES that have been amended in accordance with the changes can be found in Appendix 8 to this report) and include:

Figures 8.19 and 8.20

8.17 The photomontages have been amended to show the external design changes of the proposed SEP (both labelled Rev A). The overall massing of the building does not appear significantly different. The design changes are more subtleties to the external aesthetic appearance.

Figure 8.21

8.18 The Landscape Masterplan has been revised in accordance with changes to the site layout and building footprint and labelled Rev B. The subtleties of changes to the circulation and surface treatments of the site layout do not significantly change the details of the masterplan submitted in the February 2010 ES. Three trees sited under the proposed pipe bridge have been relocated to more appropriate locations within the site.

9 Ecology and Nature Conservation

Introduction

- 9.1 This addendum has been prepared to clarify changes made to the application and subsequent Ecology and Nature Conservation section of the Environmental Statement (ES) submitted to DECC in February 2010.
- 9.2 This statement provides additional ecological information to be submitted to DECC. The details of changes to the design and layout of the proposed Sustainable Energy Plant (SEP) are included in Chapter 3 of this report.
- 9.3 Since the February 2010 submission, additional ecological survey work committed to in Chapter 9 has been undertaken, including:
- a. Reptile presence/absence survey, May and June 2010;
 - b. Bat evening emergence and dawn swarming surveys, June and July 2010;
 - c. Bat evening activity surveys, June and July 2010; and
 - d. Otter and water vole survey August 2010.
- 9.4 The additional ecological surveys were undertaken to the guidelines referred to in Chapter 9 of the February 2010 ES.
- 9.5 The results of this additional ecological survey work are described below and the survey reports are provided at Appendices 3, 4 and 5. The following section also takes into account the Natural England (NE) consultation letter dated 24th May 2010 and subsequent written response from RPS dated 22nd July 2010. A meeting was held with NE on the 27th July 2010 (Appendix 6).

Changes to Chapter 9 of ES

- 9.6 The text of the February 2010 ES Chapter 9 requires updating as a result of the layout changes and additional ecological survey work. Changes are identified by ES section and paragraph numbers as listed below. The paragraphs referred to should now read as follows:

Measures Adopted as Part of Project

Para 9.11

- 9.7 Insert a new para before the existing para 9.11 to read:

'RPS undertook further ecological surveys during 2010. These comprised:

- 9.8 *Reptile presence/absence survey, May and June 2010;*
9.9 *Bat evening emergence and dawn swarming surveys, June and July 2010;*
9.10 *Bat evening activity surveys, June and July 2010; and*
9.11 *Otter and water vole survey August 2010.'*

Paragraph 9.37

- 9.8 Delete paragraph 9.37, as no reptiles were recorded on the application site during the May and June surveys. The RPS Reptile Report was submitted to DECC in July 2010 and is attached at Appendix 3.

Paragraph 9.38

- 9.9 Delete existing paragraph 9.38 and replace with:

'The old power station buildings would be demolished as part of the proposed redevelopment at the Lostock site. Under Regulation 53(2)(e) of the Conservation of Habitats and Species Regulations 2010, a Natural England licence would be applied for subject to planning approval and prior to the proposed demolition works, in order to safeguard the bat population during the works on site. Mitigation measures would be incorporated into the new switch building and boxes erected on retained trees along the canal edge. This would ensure that the conservation status of the bats at the Lostock site was not adversely affected.'

Paragraph 9.39

- 9.10 NE stated that clearance work must not begin if nesting birds are present on site and should commence outside the bird nesting season. NE also stated that if building works are undertaken during the bird breeding season, a check for any active nest sites should be undertaken by a suitably qualified ecologist.
- 9.11 Paragraph 9.39 of the February 2010 ES has already committed to these good practice guidelines. Add after last sentence:

'Protective fencing would be erected around the barn owl nest site to ensure its protection during the construction period.'

Paragraph 9.40

- 9.12 NE had concerns regarding the installation of herpetofauna fencing as referred to at paragraphs 9.40 and 9.169 of the February 2010 ES. Herpetofauna fencing was proposed as a precautionary approach/mitigation for reptiles as a survey for reptiles had not been completed at the time of submission due to seasonal timing constraints. However, the reptile

survey has now been completed and no reptiles were found. Herpetofauna fencing is thus not required thus removing the habitat fragmentation concerns raised by NE.

9.13 Delete:

'...In addition, herpetofauna fencing would be provided during the construction works to stop trenches etc. acting as pitfall traps. The fencing would allow the amphibians access to off site waterbodies and terrestrial habitats.'

Paragraph 9.41

9.14 Delete existing para 9.41 and replace with:

'No water voles or otters have been recorded using the Trent and Mersey canal at the SEP site. An otter spraint has been recorded under a bridge on the River Dane as it intersects the A556. No works are proposed to the waterbodies themselves, but works would be conducted in close proximity to all three water features. Best practice guidelines relating to matters such as material storage and handling, siting of construction plant and restricted vehicular movements away from sensitive sites, covering of construction materials and open trenches at night and operational control would be followed during construction'.

Paragraph 9.52

9.15 Delete: *'The Conservation (Natural Habitats &c) Regulations 1994'*

9.16 Insert: *'Conservation of Habitats and Species Regulations 2010'*

Paragraph 9.58

9.17 Delete: *'The Conservation (Natural Habitats &c) Regulations 1994'*

9.18 Insert: *'Conservation of Habitats and Species Regulations 2010'*

Phase 1 Habitat Survey

Paragraph 9.103

9.19 Deleted *'January'* from first sentence.

9.20 Added to bullet points:

- *Reptile survey presence/absence survey May and June 2010;*
- *Bat evening emergence/dawn swarming and activity surveys June and July 2010;*
and

- *Otter and water vole survey August 2010.*

Paragraph 9.104

9.21 Add after first sentence:

'After a review of the desk study results and unlikely disturbance to nearby watercourses during the construction phase, a white clawed crayfish survey was not deemed necessary.'

Paragraph 9.107

9.22 Delete: *'The Conservation (Natural Habitats &c) Regulations 1994'*

9.23 Insert: *'Conservation of Habitats and Species Regulations 2010'*

Paragraph 9.111

9.24 NE raised concerns that a full bat survey had not been undertaken prior to the February 2010 planning submission. Due to the seasonal constraints of a bat survey, a commitment was made in the February 2010 ES to undertake all further protected species surveys in the first available appropriate survey season. The further bat survey work was undertaken in June and July 2010 and the survey report (attached at Appendix 4) submitted to DECC in August 2010.

9.25 Add after last sentence:

'Emergence and dawn swarming surveys were undertaken in 2010 on this building (report at Appendix 4). No bats were recorded emerging/dawn swarming during this survey.'

Paragraph 9.114

9.26 Insert after last sentence:

'During the 2010 evening activity surveys, two species of bats (common pipistrelle and soprano pipistrelle) were recorded using these habitats.'

Paragraph 9.122

9.27 NE had concerns that a water vole and otter survey had not been undertaken prior to the February 2010 ES submission. The proposed development would not result in habitat loss or changes to water features. However, works would be carried out in proximity to the Trent and Mersey canal at the SEP site and close to the River Dane and the Weaver Navigation on the cable route. Previous surveys had not identified signs of water vole or otter in the vicinity of the site but the desk study identified a record of otter some 80m to the north of the site. A

further survey for water vole and otter was conducted in August 2010 to confirm the current position.

9.28 Add after last sentence:

'An otter and water vole survey was undertaken in August 2010 by Avian Ecology (Appendix 5). The survey was undertaken on the Trent and Mersey Canal, River Dane and Weaver Navigation. Each watercourse was surveyed up to a length of 2km from the proposed construction works. Spot checks up to 5km along each of the three watercourses at bridges for otter spraints etc were also undertaken i.e. 2.5km either side of proposed works. The survey recorded no evidence of water voles along the Trent and Mersey Canal, River Dane or Weaver Navigation.'

Paragraph 9.123

9.29 Add after last sentence:

'The August 2010 water vole and otter survey recorded a single otter spraint under a bridge along the River Dane, which intersects with the A556 (report at Appendix 5). No evidence of otters was recorded along the Trent and Mersey Canal and Weaver Navigation.'

Paragraph 9.133

9.30 Delete paragraph and replace with:

'No reptiles were recorded during the Phase 1 Habitat Survey or verification survey but suitable habitat was recorded. A reptile survey was conducted in May and June 2010. This followed the guidance of the Herpetofauna Workers' Manual (JNCC, 2003) and Froglife's Advice Sheet 10 (1999). No reptiles were found (Appendix 3).'

Paragraph 9.134

9.31 Delete: '*...1994, (Regulation 38)*'

9.32 Insert: '*...2010 (Regulation 40(1))*'

Paragraph 9.137

9.33 Add new sentence at end of paragraph:

'These survey results are still current and valid for this assessment.'

Construction Assessment

Paragraph 9.169

9.34 Delete second bullet point regarding herpetofauna fencing.

Paragraph 9.181

9.35 Add to last sentence:

'...but were not recorded along the SEP main site or grid connection route during the 2010 watercourse surveys.'

9.36 Add new sentence after revised last sentence:

'An otter spraint was recorded during the 2010 survey on the River Dane under a bridge where the A556 crosses the river.'

Paragraph 9.185

9.37 Delete:

'...Due to the seasonality of a reptile survey, a presence/absence survey for these protected species has not been undertaken at the time of the application. The current assessment has therefore been based on a worse case scenario i.e. reptiles present on site, but a full survey will be undertaken during April/May 2010 with the results and associated mitigation submitted to DECC for approval.'

9.38 Add:

'A reptile survey was conducted in May and June 2010. No reptiles were found (report at Appendix 3).'

Paragraphs 9.186 to 9.191 (inclusive)

9.39 Delete all paragraphs.

Paragraph 9.192

9.40 Deleted existing paragraph. Replace with:

'The magnitude of effect on these species is assessed as neutral. Thus the significance of the effect is neutral.'

Paragraph 9.193

9.41 Delete:

'Due to the seasonality of bat surveys and the timing of this application, a full survey to the Bat Conservation Trust guidelines has not been undertaken at the time of the planning submission i.e. dawn/evening emergence surveys and evening activity surveys. However, two bat species were confirmed on the site in 2007 during the earlier bat survey work, foraging noctule and common pipistrelle. The bat survey results to date indicate bats are present on the site and this has formed the basis for the current impact assessment. A full bat survey will be undertaken in May 2010.'

9.42 Add after retained first sentence:

'During both the 2007 and 2010 surveys, bats have been recorded foraging along the grassland, tree avenues and the Trent and Mersey Canal that surround the Lostock site. Whilst the tree avenues and Canal are to be retained, some grassland would be lost to the redevelopment. All construction work would be undertaken during the hours of 7am to 5pm i.e. generally during daylight hours, so there would be minimal impact on these nocturnal animals.'

Paragraph 9.199

9.43 NE's consultation response reminded the applicant of the licensing procedure for working within 30m of a known badger sett. At present, no evidence of badgers has been recorded on the SEP main site. However, an active badger sett was recorded within nearby woodland near the proposed cable route at Hartford Bridge. This badger sett is not within 30m of the cable route, thus a Natural England licence for disturbance is not required for the construction work.

9.44 Paragraph 9.199 within the February 2010 application does commit to undertaking a badger resurvey of the application site/cable route and 30m beyond before site clearance or construction commences, to confirm the status of this species and any associated licence implications.

Paragraph 9.202

9.45 NE stated in its May 2010 consultation response that barn owls are faithful to their nest sites. A barn owl nest has been confirmed in the disused building situated on the large rough grassland field to the west of Griffith's Road within the main SEP site. This building and the associated rough grassland field would be retained as part of the redevelopment proposals.

9.46 NE stated that barn owl nests are often situated in hidden cavities within old buildings or trees. Barn owls have not been recorded in any of the Lostock power station buildings or site trees. No tree felling is proposed as part of the proposed development works.

9.47 Add after second sentence:

'Protective fencing would be erected around the disused building to avoid any disturbance to the barn owl nesting site. Storage of any construction materials and associated temporary lighting would be sited away from this sensitive area.'

Operational Assessment

Paragraph 9.209

9.48 Add after last sentence:

'In addition to Chapter 7, Appendix 7 provides a comprehensive assessment of the air quality impacts on nature conservation sites within a 15km radius of the proposed SEP main site.'

Paragraph 9.210

9.49 Appendix 9.8 of the February 2010 ES has been superseded by the September 2010 document attached. It should be noted that the new Appendix (Appendix 7 of this report) also addresses several queries raised by Natural England in their May 2010 consultation response in relation to the impact of air quality on designated sites.

Paragraphs 9.211 to 9.221 (inclusive)

9.50 Delete all paragraphs and Tables 9.11 and 9.12.

9.51 Replace with:

'Based on the assessment of predicted contributions of NO_x, SO₂, NH₃, HF and acid and nitrogen deposition against the relevant critical levels and loads for terrestrial habitats, it is concluded that the proposed SEP with a stack height of 90m is not predicted to have potentially significant impacts on any statutory designated site of conservation interest within 15 km as a result of emissions to air.

The PC acid deposition is predicted to be >1% of the relevant EQS for several points at Plumley Lime Beds SSSI. However, given that the site is highly calcareous in nature, it is considered that this will provide sufficient buffering to prevent any significant impact as a result of the increased acid deposition.'

Paragraph 9.226

9.52 Add before first sentence:

'No significant impacts are predicted from emissions to air by the operation of the SEP on any interest feature at any European designated site within the assessment area.'

Paragraph 9.240

9.53 Delete whole paragraph.

Paragraph 9.241

9.54 First sentence, delete:

'utilised by the'

replace with:

'suitable for'.

Paragraph 9.250

9.55 NE recommended that consideration be given to the provision of barn owl boxes within any loft areas in the converted building. No further provisions are needed for barn owls as their existing nest site will be retained and the proposed SEP buildings would not be suitable.

Paragraph 9.251, 9.252 and 9.253

9.56 NE requested that the provision of artificial nest sites at selected points within the development be made to provide alternative nesting sites and to compensate for the loss of nesting sites.

9.57 Paragraphs 9.251, 9.252 and 9.253 in the February 2010 submission committed to the following compensatory measures;

- Eight bird boxes will be erected on retained trees along the Trent and Mersey Canal; and
- Two new ledges are proposed to enable peregrines to continue to perch on the new treatment building.

9.58 The only birds recorded nesting in the power station building were feral pigeons. No mitigation is proposed for this species.

Summary of Effects

Table 9.13

9.59 Changes have been made to column 3 'Magnitude of effect (Construction)' and the fourth column 'Significance of effects (Construction)' to the Reptiles VER. '*Minor negative*' from

column 3 have been replaced with 'neutral' and 'Minor adverse' from column 4 has been replaced with 'neutral'.

References

- 9.60 Delete: *'The Conservation (Natural Habitats &c.) Regulations 1994, HMSO.'*
- 9.61 Insert: *'The Conservation of Habitats and Species Regulations 2010, HMSO.'*

Changes to Figures

- 9.62 The Figures within the ES that have been amended in accordance with the changes include:

Figure 9.4

- 9.63 This figure has been amended to include the revised red line boundary that now incorporates the additional or alternative construction laydown area. The habitats recorded within this alternative area have been illustrated on Figure 9.4 Rev B.

Changes to Appendices

- 9.64 Additional appendices are now relevant to Chapter 9 and have been attached to this Addendum Statement, these being:

9.64.1 Replacement Appendix 7 – Assessment of Air Quality Impacts on Nature Conservation Sites (September 2010);

9.64.2 Appendix 3 – RPS Reptile Report (June 2010);

9.64.3 Appendix 4 – RPS Bat Report (July 2010);

9.64.4 Appendix 5 – Avian Ecology Water Vole and Otter Survey Data (August 2010); and

9.64.5 Appendix 6 – Natural England Consultation Response Letter (24th May 2010), Written Response from RPS (22nd July 2010) and Meeting Minutes (27th July 2010).

10 Hydrology and Flood Risk

Changes to Chapter 10 of the ES

- 10.1 No changes to the assessment of effects or their significance are required as a result of the changes to the application site area and changes to the plant layout.

11 Geology, Hydrology and Land Contamination

Changes to Chapter 11 of the ES

- 11.1 No changes to the assessment of effects or their significance are required as a result of the changes to the application site area and changes to the plant layout.

12 Noise and Vibration

Changes to Chapter 12 of the ES

- 12.1 No changes to the assessment of effects or their significance are required as a result of the changes to the application site area and changes to the plant layout.

13 Archaeology and Cultural Heritage

Changes to Chapter 13 of the ES

- 13.1 No changes to the assessment of effects or their significance are required as a result of the changes to the application site area and changes to the plant layout.

14 Social and Economic Effects

Changes to Chapter 14 of the ES

- 14.1 No changes to the assessment of effects or their significance are required as a result of the changes to the application site area and changes to the plant layout.

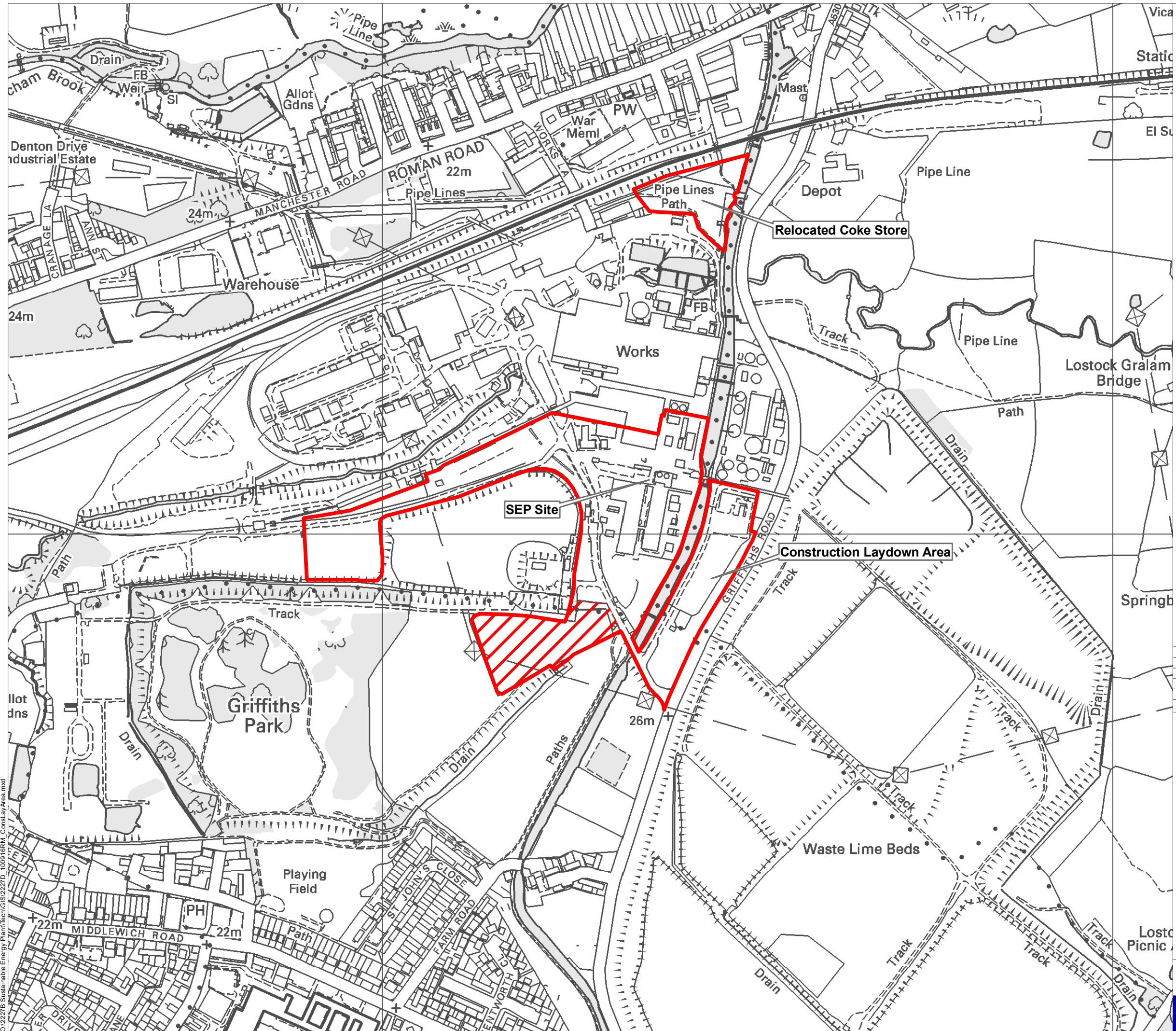
15 Conclusion

- 15.1 It is concluded that the changes to SEP are relatively minor in scale and appearance and as a consequence has led to no significant changes in effects. The change to the red line area too, on land that is essentially existing hard standing has also resulted in no material changes in effects.



Figure

Figure 1

Revised Application Boundary



Legend

-  Proposed Site Boundary
-  Additional or Alternative Construction Laydown Area

Rev:	Date:	Amendment:	Name:	Checked:

■ Data Source: RPS 2010
 Status: Preliminary



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■ Client: Brunner Mond & E.ON
 Project: Lostock Sustainable Energy Plant

Title: Redline Application Boundary

Scale: A3 @ 1:5,000


Date: Sept 2010 Datum: OSGB36 Projection: BNG
 Drawn: RM Checked: MP Job Ref: JNP2227

■ Figure No: **P/5002** Revision: .

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Appendices

Appendix 1

Chapter 6, Traffic – Shift Pattern Study

Appendix 2

Chapter 7, Air Quality – Cumulative Effects Study

Appendix 3

Chapter 9, Ecology – Reptile Survey, May/June 2010

Appendix 4

Chapter 9, Ecology – Bat Survey, June/July 2010

Appendix 5

Chapter 9, Ecology – Otter & Water Vole Survey, August 2010

Appendix 6

**Chapter 9, Ecology – Natural England letter dated 24 May 2010 and
related correspondence**

Appendix 7

Chapter 9, Ecology – Assessment of Air Quality Effects on Nature Conservation Sites

Chapter 8, Landscape – Figures 8.19 RevA, 8.20 RevA & 8.20RevB

