**Environment Agency** 



# Review of an Environmental Permit for an Installation subject to Chapter II of the Industrial **Emissions Directive under the Environmental** Permitting (England & Wales) Regulations 2016

# Decision document recording our decision-making process following review of a permit

The Permit number is: The Operator is: The Installation is: This Variation Notice number is: EPR/LP3132FX/V008

EPR/LP3132FX **Encyclis Limited** Protos Energy Recovery Facility

# What this document is about

Article 21(3) of the Industrial Emissions Directive (IED) requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on best available techniques (BAT) conclusions.

We have reviewed the permit for this installation against the revised BAT Conclusions for waste incineration published on 3<sup>rd</sup> December 2019. This is our decision document, which explains the reasoning for the consolidated variation notice that we are issuing. This review has been undertaken with reference to the decision made by the European Commission establishing best available techniques (BAT) conclusions ('BAT conclusions') for incineration as detailed in document reference C(2019) 7987. It is our record of our decision-making process and shows how we have taken into account all relevant factors in reaching our position. It also provides a justification for the inclusion of any specific conditions in the permit that are in addition to those included in our generic permit template.

It explains how we will ensure that the installation complies with the BAT conclusions by 3<sup>rd</sup> December 2023. It is our record of our decision-making process and shows how we have taken into account all relevant factors in reaching our position. It also provides a justification for the inclusion of any specific conditions in the permit that are in addition to those included in our generic permit template.

As well as ensuring that the Installation complies with the BAT conclusions the consolidated variation notice takes into account and brings together in a single document all previous variations that relate to the original permit issued. It also modernises the entire permit to reflect the conditions contained in our current generic permit template.

The introduction of new template conditions makes the Permit consistent with our current general approach and philosophy and with other permits issued to installations in this sector. Although the wording of some conditions has changed, while others have been removed because of the new regulatory approach, it does not reduce the level of environmental protection achieved by the permit in any way. In this document we therefore address mainly our determination of substantive issues relating to the new BAT Conclusions.

Throughout this document we will use a number of expressions. These are as referred to in the glossary.

We try to explain our decision as accurately, comprehensively and plainly as possible. We would welcome any feedback as to how we might improve our decision documents in future. The use of technical terms and acronyms are inevitable in a document of this nature: we provide a glossary of acronyms near the front of the document, for ease of reference.

# How this document is structured

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# 1 Glossary of acronyms used in this document

(Please note that this glossary is standard for our decision documents and therefore not all these acronyms are necessarily used in this document.)

| APC      | Air Pollution Control  |
|----------|--|
|          |  |
| BAT      | Best Available Technique(s)  |
| BAT-AEEL | BAT Associated Energy Efficiency Level   |
| BAT-AEPL | BAT Associated environmental performance level   |
| BAT-AEL  | BAT Associated Emission Level  |
| BATc     | BAT conclusion   |
| BREF     | Best available techniques reference document   |
| CEM      | Continuous emissions monitor   |
| СНР      | Combined heat and power  |
| CV       | Calorific value  |
| DAA      | Directly associated activity – Additional activities necessary to be carried out to allow the principal activity to be carried out |
| ELV      | Emission limit value derived under BAT or an emission limit value set out in IED   |
| EMS      | Environmental Management System  |
| EPR      | Environmental Permitting (England and Wales) Regulations 2016 (SI 2016 No. 1154)   |
| EWC      | European waste catalogue   |
| FSA      | Food Standards Agency  |
| IC       | Improvement Condition  |
| IED      | Industrial Emissions Directive (2010/75/EU)  |
| NOx      | Oxides of nitrogen (NO plus NO <sub>2</sub> expressed as NO <sub>2</sub> )   |
| PHE      | Public Health England  |
| SAC      | Special Area of Conservation   |
| SGN      | Sector guidance note   |
| TGN      | Technical guidance note  |
| TOC      | Total Organic Carbon   |
| WFD      | Water Framework Directive (2000/60/EC)   |
|          |  |

# 2 Our decision

We have decided to issue the consolidated variation notice to the operator. This will allow it to continue to operate the Installation, subject to the conditions in the consolidated variation notice.

We consider that, in reaching that decision, we have taken into account all relevant considerations and legal requirements and that the varied permit will ensure that a high level of protection is provided for the environment and human health.

The consolidated variation notice contains many conditions taken from our standard Environmental Permit template including the relevant Annexes. We developed these conditions in consultation with industry, having regard to the legal requirements of the Environmental Permitting Regulations and other relevant legislation. This document does not therefore include an explanation for these standard conditions. Where they are included in the Notice, we consider that those conditions are appropriate.

#### 3 How we reached our decision

# **3.1** Requesting information to demonstrate compliance with BAT Conclusions for incineration Plant

We issued a Notice under Regulation 61(1) of the Environmental Permitting (England and Wales) Regulations 2016 (a Regulation 61 Notice) on 05/05/2022 requiring the Operator to provide information to demonstrate how the operation of their installation currently meets, or will subsequently meet, the revised standards described in the incineration BAT Conclusions document. The Notice also required that where the revised standards are not currently met, the operator should provide information that:

- Describes the techniques that will be implemented before 3<sup>rd</sup> December 2023, which will then ensure that operations meet the revised standard, or
- Justifies why standards will not be met by 3<sup>rd</sup> December 2023, and confirmation of the date when the operation of those processes will cease within the installation or an explanation of why the revised BAT standard is not applicable to those processes, or
- Justifies why an alternative technique will achieve the same level of environmental protection equivalent to the revised standard described in the BAT Conclusions.

Where the Operator proposed that they were not intending to meet a BAT standard that also included a BAT Associated Emission Level (BAT AEL) described in the BAT Conclusions Document, the Regulation 61 Notice requested that the Operator make a formal request for derogation from compliance with that AEL (as provisioned by Article 15(4) of IED). In this

circumstance, the Notice identified that any such request for derogation must be supported and justified by sufficient technical and commercial information that would enable us to determine acceptability of the derogation request.

The Regulation 61 Notice response from the Operator was received on 05/07/2022.

# 3.2 Review of our own information in respect to the capability of the installation to meet revised standards included in the BAT Conclusions document

Based on our records and previous assessment of the facility we have no reason to consider that the operator will not be able to comply with the conditions that we include in the permit.

#### 4 The legal framework

The consolidated variation notice will be issued under Regulation 20 of the EPR. The Environmental Permitting regime is a legal vehicle which delivers most of the relevant legal requirements for activities falling within its scope. In particular, the regulated facility is:

- an *installation* as described by the IED;
- subject to aspects of other relevant legislation which also have to be addressed.

We consider that the consolidated variation notice will ensure that the operation of the Installation complies with all relevant legal requirements and that a high level of protection will be delivered for the environment and human health.

We explain how we have addressed specific statutory requirements more fully in the rest of this document.

## 5 The key issues

The key issues arising during this permit review are:

- Ensuring the Installation complies with the BAT conclusions.
- Setting emission limits (including BAT AELs) for emissions to air,
- The energy efficiency levels associated with the Best Available Techniques (BAT-AEELs)

#### 5.1 Ensuring the Installation complies with the BAT conclusions

We have reviewed the operator's response to the regulation 61 notice and we are satisfied that the Installation will meet the requirements of the BAT conclusions by 3<sup>rd</sup> December 2023. Further detail on our assessment is in annex 1 of this decision document.

Based on our records and previous regulatory activities with the Installation we have no reason to consider that the operator will not be able to comply with the conditions that we have included in the permit.

#### 5.2 Emissions to air and the emission limits applied to the plant

The consolidated permit includes new emission limits for emissions to air. These limits ensure that the installation will comply with the relevant BAT-AELs, as specified in the BAT conclusions, and the relevant limits from IED Annex VI.

A number of general principles were applied during the permit review, including those set out in the UK Waste Incineration BAT Conclusions Interpretation Document . These included:

- The upper value of the BAT-AELs ranges specified were used unless use of the tighter limit was justified.
- The principle of no backsliding where if existing limits in the permit were already tighter than the upper end of the BAT-AEL ranges, the existing permit limits were retained.
- Where a limit was specified in both IED Annex VI and the BAT Conclusions for a particular reference period, the tighter limit was applied and in the majority of cases this was from the BAT Conclusions.

We have set the emissions limit values at the top end of the BAT-AEL range in line with section 4.35 of Defra's Industrial emissions Directive EPR Guidance on Part A installations which states: *Where the BAT AELs are expressed as a range, the ELV should be set on the basis of the top of the relevant BAT-AEL* 

range – that is to say, at the highest associated emission level - unless the installation is demonstrably capable of compliance with a substantially lower ELV, based on the BAT proposed by the operator, or exceptional environmental considerations compel a tighter ELV.

We are satisfied that environmental considerations do not require tighter ELVs to be set, and the operator has not proposed any lower ELVs, and so we have set the ELVs at the top end of the BAT-AEL ranges.

We have set IC11 which requires the operator to assess options to reduce  $NO_X$  emissions below the top of the BAT AEL range.

#### 5.3 Energy efficiency

The BAT conclusions specify an energy efficiency level associated with the best available techniques (BAT-AEEL). The BAT AEEL is based on gross electrical efficiency, gross energy efficiency or boiler efficiency depending on the type of plant.

The relevant BAT AEEL for this installation is gross electrical efficiency.

The Applicant stated that gross electrical efficiency is estimated to be 29.9% once the site is commissioned. This within the range specified in the BAT conclusions. However, as the facility is yet to be commissioned the gross electrical has not yet been calculated. We have set improvement condition IC14 that requires the operator to calculate the efficiency and assess opportunities to improve energy efficiency in the event that gross energy efficiency is below the BAT AEEL range.

#### 5.4 Monitoring

The monitoring requirements for mercury and dioxins/furans are dependent on whether the waste has low a low and stable mercury content and whether emissions of dioxins are stable respectively. Improvement conditions IC12 and IC13 require the operator to submit information to enable us to require the correct monitoring.

# Annex 1

# Decision checklist regarding relevant BAT Conclusions

This annex provides a record of decisions made in relation to each relevant BAT Conclusion applicable to the installation.

The overall status of compliance with the BAT conclusion is indicated in the table below as

- NA Not Applicable
- CC Currently Compliant FC Compliant in the future (by 3<sup>rd</sup> December 2023)
- NC Not Compliant

| BAT<br>No. | Торіс                | Brief Description  | Operator response   | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|----------------------|--|---|---|
| 1          | EMS                  | Improve overall performance via use of a compliant EMS.  | Prior to the commencement of operations at the site, a site-<br>specific EMS will be implemented that complies with all the<br>relevant points listed in BAT 1.   | FC  |
| 2          | Energy<br>efficiency | Determine gross electrical efficiency, gross<br>energy efficiency or boiler efficiency<br>(depending on plant type). | Gross electrical efficiency has been calculated using the<br>methodology set out in the BREF. The gross electrical<br>efficiency is calculated to be 29.9%, which compares<br>favourably with the benchmarks provided in the BREF (20-<br>35% for existing plants). Performance tests will<br>subsequently be carried out during the commissioning<br>stages to confirm the efficiency of the Facility. | FC  |

| BAT<br>No. | Торіс                          | Brief Description  | Operator response  | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|--------------------------------|--|--|---|
| 3          | Process<br>Monitoring          | Monitor key process parameters for<br>emissions to air and water specified in the<br>corresponding table.  | Process monitoring will be carried out in line with BAT 3 requirements for the relevant parameters listed in the BREF.   | FC  |
|            | Air<br>emissions<br>monitoring | Monitor emissions to air with at least the frequency in the corresponding table and in accordance with the EN standards.                                     | Monitoring will be carried out in line with BAT 4 requirements.  | FC  |
| 4          | PBDD/F                         | Monitor emissions to air of brominated<br>dioxins and furans periodically if waste<br>streams are known to contain brominated<br>flame retardants are burned | The plant burns municipal waste or similar and therefore PBDD/F monitoring will be carried out from 01/01/23 where possible.   | FC  |
|            | PCDD/F                         | Monitor emissions to air of dioxins and<br>furans using a continuous sampler unless<br>emissions are sufficiently stable.                                    | Attempts will be made to demonstrate via the PCCD/F<br>Monitoring Protocol that emissions to air of PCDD/F are<br>sufficiently stable and that a continuous sampler (long-term<br>monitoring) is not required by 03/12/23; if these are<br>unsuccessful, continuous sampling will be installed as soon<br>as reasonably practical. | FC  |

| BAT<br>No. | Торіс               | Brief Description  | Operator response   | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|---------------------|--|---|---|
|            | Mercury             | Monitor emissions to air of mercury using continuous monitoring if required.   | Attempts will be made to demonstrate via the Mercury<br>Monitoring Protocol that emissions to air of mercury are low<br>and stable and that a continuous sampler is not required; if<br>these are unsuccessful, continuous monitoring will be<br>installed as soon as reasonably practical.   | FC  |
| 5          | OTNOC<br>monitoring | Appropriately monitor emissions during<br>OTNOC.<br>Monitor PCCD/F and dioxin-like PCB mass<br>emissions during a planned start-up and<br>shut-down following the successful<br>commissioning of the plant; already-<br>operational plants must carry out this<br>monitoring every 3 years; emissions profiles<br>of continuously monitored pollutants must<br>also be established following successful<br>commissioning and for existing plants;<br>consider further monitoring for plants that<br>use abatement-system bypasses during<br>start-up and/or shut-down. | Plant is likely to be commissioned after 03/12/23. Emissions<br>profiles for continuously monitored pollutants will be<br>established during start-up and shut-down following<br>successful commissioning. Monitoring of PCCD/F and<br>dioxin-like PCB mass emissions during a planned start-up<br>and shut-down will also be carried out on a 'best<br>endeavours basis' following the successful commissioning<br>of the plant. | FC  |

| BAT<br>No. | Торіс                            | Brief Description  | Operator response  | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|----------------------------------|--|--|---|
| 6          | Water<br>emissions<br>monitoring | Monitor emissions from FGC and/or bottom<br>ash treatment.<br>Monitor to frequencies and standards in<br>corresponding table.<br>Reduced monitoring frequency permitted if<br>emissions can be shown to be sufficiently<br>stable.         | Not applicable as no emissions to water from FGC or<br>bottom ash treatment.<br>Not applicable as no emissions to water from FGC or<br>bottom ash treatment. | NA  |
| 7          | Ash<br>monitoring                | Monitor LOI or TOI content of bottom ash to<br>the frequencies and standards in<br>corresponding table .   | Monitoring carried out for TOC or LOI (TOC or LOI will be settled on once the facility is operational)   | FC  |
| 8          | POP<br>monitoring                | For hazardous waste containing POPs,<br>monitor POP content of waste streams<br>(applicable to dedicated hazardous waste<br>incinerators only). After commissioning and<br>then after significant change that could<br>affect POP content. | Not applicable - plant is not a dedicated hazardous waste incinerator  | NA  |

| BAT<br>No. | Торіс   | Brief Description   | Operator response   | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|---|---|---|---|
| 9          | Waste input<br>controls                       | Pre-acceptance / acceptance procedures.<br>Use all techniques (a) to (c) in<br>corresponding table, and where relevant<br>(d), (e) and (f). | Techniques set out in BAT 9 (a)-(c) are in place.<br>Techniques (d)-(f) are not relevant. | FC  |
| 10         | Bottom ash<br>treatment                       | Quality output management system part of EMS where bottom ash treatment is carried out.   | Not applicable - bottom ash treatment is not carried out.                                 | FC  |
| 11         | Waste<br>delivery,<br>storage and<br>handling | Monitor waste deliveries in line with corresponding table, depending on the risk posed by the waste type.                                   | Measures in line with BAT 11 are in place   | FC  |

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| BAT<br>No. | Торіс                                 | Brief Description  | Operator response   | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|---------------------------------------|--|---|---|
|            |                                       | Radioactivity detection  | Not required - no increased risk identified                                     | FC  |
| 12         |                                       | Storage and handling.<br>Use both techniques listed in corresponding<br>table.   | Measures in line with BAT 12 are in place                                       | FC  |
| 13         |                                       | Storage and handling of clinical waste.<br>Combination of techniques listed in<br>corresponding table.                                       | Not applicable as clinical waste not received at the installation               | NA  |
| 14         | Overall<br>environment<br>performance | Reduce unburnt substances in slags /<br>bottom ash and reduce emissions.<br>Use a combination of techniques listed in<br>corresponding table | The following measures listed in the table of BAT 14 are used: (a), (b) and (c) | FC  |

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| BAT<br>No. | Торіс                           | Brief Description   | Operator response   | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|---------------------------------|---|---|---|
|            |                                 | BAT-AEPL for TOC or LOI   | The installation meets the BAT-AEPL for TOC or LOI as shown by historic monitoring data       | FC  |
| 15         |                                 | Control plant settings to reduce emissions<br>to air. Use techniques such as an advanced<br>control system.   | An advanced control system is in place to achieve the requirements of BAT 15.                 | FC  |
| 16         |                                 | Procedures to limit shutdown and start-up.<br>Set up and implement procedures such as<br>continuous rather than batch operation                         | Start-up and shut-down is minimised as far as practicable.                                    | FC  |
| 17         | Emission to<br>air and<br>water | Design of FGC system and waste water<br>treatment plant. Appropriate design,<br>operated in design range, maintained to<br>ensure optimal availability. | Flue gas system is designed appropriately and will be operated within those design parameters | FC  |

| BAT<br>No. | Торіс                | Brief Description  | Operator response  | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|----------------------|--|--|---|
| 18         | OTNOC                | Reduce frequency of OTNOC by setting up<br>and implementing an OTNOC management<br>plan. | An OTNOC management plan which meets the requirements of BAT 18 will be implemented by 03/12/23. A description of how critical equipment has been designed to minimise occurrence of abnormal operation (AO) and minimise impacts from AO and start-up and shut-down periods is included with this submission. | FC  |
| 19         |                      | Increase efficiency by using a heat recovery boiler.                                     | A heat recovery boiler is used to generate electricity.  | FC  |
|            | Energy<br>efficiency | Increase efficiency by using a combination of techniques listed in corresponding table.  | The following measures listed in the table of BAT 20 are used: (b), (c), (d) and (f). The techniques are discussed in further detail in the supporting document.   | FC  |
| 20         |                      | BAT-AEEL is within the BAT – AEEL range  | The gross electrical efficiency has been calculated to be 32.02%. This compares favourably with the BAT-AEEL range for existing plants (20 - 35%).   | FC  |

| BAT<br>No. | Торіс               | Brief Description   | Operator response  | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|---------------------|---|--|---|
| 21         |                     | Prevent or reduce diffuse emissions<br>(including odour) using the listed<br>techniques.  | Measures in line with BAT 21 are in place                  | FC  |
| 22         | Diffuse             | Prevent diffuse emissions of VOCs from gaseous and liquid wastes by direct feed to furnace.   | Not applicable - gaseous or liquid waste are not accepted. | NA  |
| 23         | emissions to<br>air | Prevent or reduce diffuse emissions to air<br>from treatment of slags and bottom ashes<br>by including listed measures in the EMS.                          | Not applicable - bottom ash treatment is not carried out.  | NA  |
| 24         |                     | Prevent or reduce diffuse emissions to air<br>from treatment of slags and bottom ashes.<br>Use one or a combination of techniques in<br>corresponding table | Not applicable - bottom ash treatment is not carried out.  | NA  |

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| BAT<br>No. | Торіс                      | Brief Description  | Operator response   | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|----------------------------|--|---|---|
| 05         |                            | Reduce emissions of metals and metalloids<br>from incineration of waste. Use one or a<br>combination of techniques in corresponding<br>table.                        | The following measures listed in the table of BAT 25 are used: (a) and (c)                              | FC  |
| 25         | Channelled<br>emissions to | BAT-AELs for dust and metals   | The plant is currently able to achieve an emission limit value set at the top end of the BAT-AEL range. | FC  |
| 26         | air                        | Reduce emissions of dust from treatment of<br>slags and bottom ashes.<br>Use a bag filter if treating air from treatment<br>of IBA under sub-atmospheric conditions. | Not applicable - bottom ash treatment is not carried out.   | NA  |
| 26         |                            | BAT-AEL for dust from IBA treatment.<br>Applies if using a bag filter to treat air from<br>treatment of IBA under sub-atmospheric<br>conditions                      | Not applicable - bottom ash treatment is not carried out.   | NA  |

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| BAT<br>No. | Торіс | Brief Description  | Operator response   | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|-------|--|---|---|
| 27         |       | Reduce emissions of HCI, HF and SO <sub>2</sub><br>using one or a combination of techniques in<br>corresponding table.                                       | The following measures listed in the table of BAT 27 are used: technique (c).                           | FC  |
|            |       | Reduce peak emissions of HCI, HF and SO <sub>2</sub><br>and amount of residue produced, using<br>technique (a) or both techniques in<br>corresponding table. | The following measures listed in the table of BAT 28 are used: (a) and (b)                              | FC  |
| 28         |       | BAT-AELs for HCI, HF and SO2   | The plant is currently able to achieve an emission limit value set at the top end of the BAT-AEL range. | FC  |
| 29         |       | Reduce emissions of NOx while limiting emissions of CO, $N_2O$ and $NH_3$ using appropriate combination of techniques in corresponding table.                | The following measures listed in the table of BAT 29 are used: (a), (b), (c) and (f)                    | FC  |

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| BAT<br>No. | Торіс | Brief Description  | Operator response   | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|-------|--|---|---|
|            |       | BAT-AELs for NOx, CO and NH₃   | The plant is currently able to achieve an emission limit value set at the top end of the BAT-AEL range. | FC  |
|            |       | Reduce emissions of organic compounds<br>including PCDD/F and PCBs using<br>techniques (a), (b), (c), (d) and one or a<br>combination of techniques (e) to (i) in<br>corresponding table | The following measures listed in the table of BAT 30 are used: (a), (c), (d), (e)                       | FC  |
| 30         |       | BAT-AELs for PCDD/F  | The plant is currently able to achieve an emission limit value set at the top end of the BAT-AEL range. | FC  |
| 31         |       | Reduce mercury emissions using one or a combination of techniques in the corresponding table.  | The following measures listed in the table of BAT 31 are used: (b)                                      | FC  |

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| BAT<br>No. | Торіс                 | Brief Description  | Operator response   | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|-----------------------|--|---|---|
|            |                       | BAT-AEL for mercury. Emissions below top<br>end of BAT-AEL range   | The plant is currently able to achieve an emission limit value set at the top end of the BAT-AEL range. | FC  |
| 32         | Emissions<br>to water | Reduce contamination of uncontaminated<br>water, reduce emissions to water and<br>increase resource efficiency. Segregate<br>waste water streams and treat them<br>separately.   | The measures listed under BAT 32 are used.  | FC  |
| 33         | Water<br>usage        | Reduce water usage, prevent waste water<br>generation using one or a combination of<br>techniques in the corresponding table   | The following measures listed in the table of BAT 33 are used:(a), (c)                                  | FC  |
| 34         | Emissions<br>to water | Reduce emissions to water from FGC<br>and/or from storage and treatment of slags<br>and bottom ashes using one or a<br>combination of techniques in the<br>corresponding table and use secondary<br>techniques as close to source as possible. | Not applicable - no direct or indirect emissions to water from FGC or bottom ash treatment              | NA  |

| BAT<br>No. | Торіс      | Brief Description  | Operator response  | Complies<br>with<br>BAT?<br>(NA, CC,<br>FC, NC) |
|------------|------------|--|--|---|
|            |            | BAT-AELs. Emissions below top end of<br>BAT-AEL range  | Not applicable - no direct or indirect emissions to water from FGC or bottom ash treatment | NA  |
| 35         | Resource   | Resource efficiency.<br>Handle and treat bottom ashes separately<br>from FGC residues.   | Bottom ashes are handled and treated separately from FGC residues.                         | FC  |
| 36         | efficiency | Resource efficiency for treatment of slags<br>and bottom ashes. Use appropriate<br>combination of techniques in corresponding<br>table depending on hazardous properties of<br>the slags and bottom ashes. | Not applicable - bottom ash treatment is not carried out.                                  | NA  |
| 37         | Noise      | Reduce noise emissions using one or a combination of techniques in the corresponding table.  | The following measures listed in the table of BAT 37 are used (a), (b), (c), (d), (e)      | FC  |

#### 6 Review and assessment of derogation requests made by the operator in relation to BAT Conclusions which include an associated emission level (AEL) value

The IED enables a competent authority to allow derogations from BAT AELs stated in BAT Conclusions under specific circumstances as detailed under Article 15(4):

By way of derogation from paragraph 3, and without prejudice to Article 18, the competent authority may, in specific cases, set less strict emission limit values. Such a derogation may apply only where an assessment shows that the achievement of emission levels associated with the best available techniques as described in BAT conclusions would lead to disproportionately higher costs compared to the environmental benefits due to:

(a) the geographical location or the local environmental conditions of the installation concerned; or

(b) the technical characteristics of the installation concerned.

As part of their Regulation 61 Note response, the operator has not requested a derogation from compliance with any AEL values.

# 7 Summary checklist

| Aspect considered  | Decision  |  |  |
|--|---|--|--|
| Receipt of application   |   |  |  |
| Confidential information   | A claim for commercial or industrial confidentiality has not been made.   |  |  |
| Identifying confidential information   | We have not identified information provided as part of the application that we consider to be confidential.   |  |  |
|  | The decision was taken in accordance with our guidance on confidentiality.  |  |  |
| Operating techniques   |   |  |  |
| General operating<br>techniques  | We have reviewed the techniques used by the operator where<br>they are relevant to the BAT Conclusions and compared these<br>with the relevant guidance notes.  |  |  |
|  | The permit conditions ensure compliance with the relevant BREF, BAT Conclusions. The ELVs deliver compliance with the BAT-AELs.   |  |  |
| Permit conditions  |   |  |  |
| Updating permit<br>conditions during<br>consolidation                                      | We have updated permit conditions to those in the current<br>generic permit template as part of permit consolidation. The<br>conditions will provide at least the same level of protection as<br>those in the previous permit and in some cases will provide a<br>higher level of protection to those in the previous permit. |  |  |
| Changes to the permit<br>conditions due to an<br>Environment Agency<br>initiated variation | We have varied the permit as stated in the variation notice.  |  |  |
| Improvement<br>programme   | Based on the information on the application, we consider that we need to impose an improvement programme.   |  |  |
| Emission limits  | We have decided that emission limits should be set for the parameters listed in the permit.   |  |  |
|  | These are described in the relevant BAT Conclusions in Section 3.2 of this document.  |  |  |
|  | It is considered that the ELVs/equivalent parameters or technical<br>measures described above will ensure that significant pollution of<br>the environment is prevented and a high level of protection for<br>the environment is secured.   |  |  |

| Aspect considered                                     | Decision  |  |
|---|---|--|
| Monitoring  | We have decided that monitoring should be carried out for the parameters listed in the permit, using the methods detailed and to the frequencies specified.   |  |
|   | These are described in the relevant BAT Conclusions in Section 5.4 of this document.  |  |
| Operator competence                                   |   |  |
| Management system                                     | There is no known reason to consider that the operator will not<br>have the management system to enable it to comply with the<br>permit conditions.   |  |
| Growth Duty   |   |  |
| Section 108<br>Deregulation Act 2015<br>– Growth duty | We have considered our duty to have regard to the desirability<br>of promoting economic growth set out in section 108(1) of the<br>Deregulation Act 2015 and the guidance issued under section<br>110 of that Act in deciding whether to grant this permit.   |  |
|   | Paragraph 1.3 of the guidance says:<br>"The primary role of regulators, in delivering regulation, is to<br>achieve the regulatory outcomes for which they are<br>responsible. For a number of regulators, these regulatory<br>outcomes include an explicit reference to development or<br>growth. The growth duty establishes economic growth as a<br>factor that all specified regulators should have regard to,<br>alongside the delivery of the protections set out in the relevant<br>legislation." |  |
|   | We have addressed the legislative requirements and<br>environmental standards to be set for this operation in the body<br>of the decision document above. The guidance is clear at<br>paragraph 1.5 that the growth duty does not legitimise non-<br>compliance and its purpose is not to achieve or pursue<br>economic growth at the expense of necessary protections.   |  |
|   | We consider the requirements and standards we have set in<br>this permit are reasonable and necessary to avoid a risk of an<br>unacceptable level of pollution. This also promotes growth<br>amongst legitimate operators because the standards applied to<br>the operator are consistent across businesses in this sector<br>and have been set to achieve the required legislative<br>standards.   |  |