

APPENDIX G – APPLICATION TO VARY THE ENVIRONMENTAL PERMIT



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MGT Teesside Limited

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TEES RENEWABLE ENERGY PLANT

APPLICATION TO VARY THE ENVIRONMENTAL PERMIT

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LIST OF ABBREVIATIONS

AEL	Associated emissions level
barg	bar gauge
BAT	Best Available Techniques
CEN	European Committee for Standardization
CFB	Circulating fluidised boiler
CO	Carbon monoxide
DAA	Directly Associated Activity
EA	Environment Agency
ELV	Emissions limit value
EPR	Environmental Permitting (England and Wales) Regulations 2010 (as amended)
ERA	Environmental risk assessment
ES	Environmental statement
g/s	grams per second
HCl	Hydrogen chloride
IED	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (the Industrial Emissions Directive)
ISO	International Organization for Standardization
K	Kelvin
kPa	kilopascals
LCP BREF	Integrated Pollution Prevention and Control Reference Document on Best Available Techniques for Large Combustion Plants (July 2006)
LCP D1	Best Available Techniques (BAT) Reference Document for the Large Combustion Plants (June 2013)
LCP D2	Updated Section 10 of LCP D2
m	metres
m ³	cubic metres
MCertS	EA Monitoring Certification Scheme
mg/Nm ³	milligrams per normal cubic metre
MGT	MGT Teesside Ltd
MJ/kg	megajoules per kilogram
MW	megawatts
MWth	megawatts thermal
NH ₃	Ammonia
NO _x	Oxides of nitrogen
°C	Degrees Celsius
OPRA	Operational Risk Appraisal
POC	Pre-operational Condition

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SGN	Sector Guidance Note
SNCR	Selective non-catalytic reduction
SO ₂	Sulphur dioxide
Te/year	tonnes per year

NON-TECHNICAL SUMMARY

In November 2008, MGT Teesside Limited (MGT) submitted an application to the Environment Agency (EA) for an Environmental Permit, under the (then) Environmental Permitting (England and Wales) Regulations 2007, for a new 299 MW biomass-fired generating station at Teesport, Teesside (Tees Renewable Energy Plant, or the Development).

On 23 December 2009, an Environmental Permit (Permit Number EPR/TP3538GF) (the Permit) was granted for the Development.

Since the grant of the Permit, design work on the Development has continued and some variations to the fuel and activities at the Development are being proposed.

In addition, the EA is currently undertaking a review of all Environmental Permits for large combustion plants (amongst others) in order to apply suitable conditions to ensure that all Environmental Permits are compliant with the relevant provisions of Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (the Industrial Emissions Directive, or IED). All Environmental Permits are required to be compliant with the IED by 1 January 2016. Though the operation of the Development has not yet commenced, it is an appropriate time to consider the Permit in the context of the future implications of compliance with the IED.

Accordingly, a brief description of the proposed variations to the Permit are as follows:

- The IED makes special provisions for large combustion plants, including introducing new emissions limit values (ELVs). Following a comparison of the ELVs in the Permit with the equivalent ELVs prescribed by the IED (and current guidance), variations are sought to ensure that the ELVs for the Development are in accordance with the legislation and represent the latest UK position regarding the application of Best Available Techniques (BAT).
- The original application was prepared on the basis that the Development would be fuelled by wood chips. This was the main biomass fuel that was available at the time. Since the granting of the Permit, the biomass fuel market has developed and increased the variety of biomass fuels that are currently available. As a result, the design of the Development has progressed and will have the ability and flexibility to be fuelled by wood chips and wood pellets and therefore a variation to the Permit is sought. This allows for increased flexibility and diversity in the use of biomass fuels. The ability to use wood pellets as well as wood chips will allow the Development to contribute more readily to the security and stability of UK electricity supplies. The proposed wood pellet fuels for the Development are similar in composition to the wood chip proposed in the original application and no significant or adverse changes to the environmental emissions from the Development are anticipated. It is recognised that the handling and use of wood pellets presents an increased risk of fire and explosion and the design of the Development will ensure those risks are reduced and the facilities are designed to the BAT standards required for pellets. This can be covered in the pre-operation condition (POC) or under the existing POC2.
- A variation to the installation boundary is being proposed to ensure that any activities related to the conveying of fuel from the berth onto the site of the Development are properly included within the area regulated by the Permit. The legal boundaries of the Development site will not change but the conveyor will partially operate on adjoining land. An amended installation boundary plan is included within this Document.
- A wood chip dryer is to be installed on the site of the Development in order to dry locally sourced woodchip. Planning permission is still being sought for the wood chip dryer (the dryer) but details are being provided for this variation as, if planning permission is granted, it would be considered to be a directly associated activity (DAA) as:
 - It is an activity which has a technical connection with a regulated activity;
 - The dryer will be on the same site as the regulated activity; and,
 - Operation of the dryer could have an effect on pollution.

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The dryer will be designed to receive and dry a minimum of 50,000 tonnes per annum of wet wood chips (based on an anticipated 8,000 operating hours per annum). The dryer will be capable of accepting fuel with a moisture content of up to 60% (w/w) and reducing this down to 20% (w/w).

The thermal load of the dryer will be approximately 3.2 MWth and this will load be met via steam extraction from the steam cycle of the Development at, typically, 170°C and 4 barg. This steam will heat the inlet air that will pass over the moist wood chip. Air saturated with water vapour will exit the wood chip dryer, via an appropriate filter system (for the control of particulate matter), to the dryer exhausts (at a height of approximately 10 m).

- As the detailed design of the Development has progressed, it has identified that some alterations to the layout and dimensions of the buildings on the Development site may be required. Therefore the variation seeks to agree a POC in relation to identifying material effects, if any, on the results of previous air dispersion modelling studies of the Development based on the final layout and dimensions of the buildings.

1 INTRODUCTION

1.1 Overview

- 1.1.1 On 15 July 2009, consent under Section 36 of the Electricity Act 1989 and deemed planning permission under Section 90(2) of the Town and Country Planning Act 1990 was granted to MGT Teesside Limited (MGT) to construct and operate a 295 MW biomass-fired generating station at Teesport, Teesside (the Development).
- 1.1.2 In November 2008, MGT submitted an application to the Environment Agency (EA) for an Environmental Permit under the (then) Environmental Permitting (England and Wales) Regulations 2007 for the Development. On 23 December 2009, an Environmental Permit (Permit Number EPR/TP3538GF, the Permit) was granted for the Development.
- 1.1.3 Subsequent to this, MGT submitted an application for a revised scheme for the Development. On 9 March 2010, consent under Section 36 of the Electricity Act 1989 and deemed planning permission under Section 90(2) of the Town and Country Planning Act 1990 was granted for the Development (together referred to as the 2010 Consent). The revised scheme as defined by the 2010 Consent did not require any alterations to the Permit.
- 1.1.4 Further to the Permit and 2010 Consent, an application for a wood chip dryer within the installation boundary (as defined in the Permit) has been submitted to the local planning authority¹.

1.2 Industrial Emissions Directive

- 1.2.1 Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (the Industrial Emissions Directive, or IED) recast seven relevant directives regarding the protection of the environment and human health with the aim of reducing harmful industrial emissions across the EU, in particular through better application of Best Available Techniques (BAT).
- 1.2.2 The IED is given force in England by the Environmental Permitting (England and Wales) Regulations 2010, as amended (EPR).
- 1.2.3 The IED (and thus the EPR) makes special provisions for large combustion plant (as proposed for the Development), introducing new emissions limit values (ELVs) relevant to combustion operations.
- 1.2.4 All Environmental Permits are required to be compliant with the IED by 1 January 2016.

Best Available Techniques

- 1.2.5 The IED (under Article 13) requires the review and update of, as relevant to the Development, the reference document on BAT for large combustion plants (LCP BREF).
- 1.2.6 Article 14(3) states that BAT conclusions (as detailed in the LCP BREF) are to be used as the reference point for setting conditions within an Environmental Permit.
- 1.2.7 The existing LCP BREF is titled 'Reference Document on Best Available Techniques for Large Combustion Plants', July 2006. However, a review and update of the LCP BREF is currently underway and is expected to be completed by the end of 2015. Draft documents have been published, as part of the review, in July 2013 (LCP D1) and April 2015 (LCP D2).
- 1.2.8 As part of the review process, the EA published the 'Summary of the UK Wish List LCP BREF Review' (May 2011) (hereafter referred to as the Wish List) that summarises the UK position regarding BAT for new and existing large combustion plant.

¹ An application for outline planning permission for the wood chip dryer has been submitted to Redcar and Cleveland Borough Council (Ref: R/2015/0149/OOM). Details available at: [https://planning.redcar-cleveland.gov.uk/\(S\(rcbu2tfajordhephxe1qkw4j\)\)/plaRecord.aspx?AppNo=R/2015/0149/OOM](https://planning.redcar-cleveland.gov.uk/(S(rcbu2tfajordhephxe1qkw4j))/plaRecord.aspx?AppNo=R/2015/0149/OOM)

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- 1.2.9 Article 13(7) states that, until completion of the review of the LCP BREF, the existing LCP BREF is to be used as the reference point for setting Environmental Permit conditions. However, it is understood that the current position of the EA is that, until publication of the revised LCP BREF, the reference point to be used for BAT (and thus conditions within Environmental Permits), in England, is the Wish List.
- 1.2.10 Following publication of the final revised LCP BREF, operators will have four years to implement any changes to their operations required as a result of the BAT conclusions presented therein.

1.3 The Purpose of this Document

Environmental Permit Review

- 1.3.1 The EA is currently undertaking a review of all Environmental Permits for large combustion plants (amongst others) in order to apply suitable conditions to ensure that all Environmental Permits are compliant with the relevant provisions of the IED by 1 January 2016.
- 1.3.2 An EPC contract for the Development will be let in two months' time which will be based on the current ELVs in the Permit and the Wish List, and any other requirements proposed by the EA taking into account the potential implications of the final revised LCP BREF in the proposed design, construction and operation of the Development.
- 1.3.3 Following publication of the revised LCP BREF, operators will have four years (assumed, at this stage, to be until the end of 2019) to implement any changes to their operations required as a result of the BAT conclusions presented therein.
- 1.3.4 Pre-operation condition (POC) 2 of the Permit currently states:
"At least 4 months prior to commencement of operations at the site the Operator shall send to the Agency a report detailing a BAT assessment for the final power station [...] against BAT standards within the IPPC Sector Guidance Note – EPR 1.01 – Combustion Activities dated March 2009".
- 1.3.5 It is assumed that the Sector Guidance Note (SGN) referred to in POC2 will be updated to accord with the revised LCP BREF and that this will be relevant document to be used as the basis for the required BAT assessment. At the time of the undertaking of the BAT assessment, should an updated SGN not be available, it is anticipated that the BAT assessment will use the BAT conclusions of the revised LCP BREF.
- 1.3.6 Therefore it is proposed that POC2 be amended. Further information on the proposed amendment is provided in Section 7.

Application to Vary a Bespoke Environmental Permit

- 1.3.7 MGT is submitting this application to vary the Permit to allow for a number of proposed changes to the Development. These proposed changes comprise:
- An update due to the implementation of the IED;
 - The potential to use wood pellets (as well as wood chip) as fuel;
 - An extension of the Installation boundary;
 - Operation of a wood chip dryer within the Installation boundary; and,
 - The agreement of a process to deal with any change to the layout and dimensions of the buildings within the site boundary as the detailed design of the Development is progressed.

Structure and Content of this Document

- 1.3.8 This document presents the information required for the Variation and contains:
- Summary of IED compliance information;
 - Application Forms;

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- Part A: About You;
- Part C2: General – Varying a Bespoke Permit;
- Part C3: Varying a Bespoke Installation Environmental Permit; and;
- Part F1: OPRA, Charges and Declarations.
- Supporting Information (including updated Operational Risk Appraisal (OPRA) Spreadsheet).

1.4 Approach to the Variation and Terminology

- 1.4.1 As discussed in Section 1.3, the variations proposed within this application are intended to address: the resultant requirements of the implementation of the IED (and the associated provisions of the EPR); the potential for wood chips and wood pellets to be used at the Development; an extension of the Installation boundary to cover any activities related to the conveyance of the fuel from the adjoining berth; the operation of a wood chip dryer within the Installation boundary; and, agree a process to deal with any change to the layout and dimensions of the buildings within the site boundary as the detailed design of the Development is progressed.
- 1.4.2 This Document therefore concentrates, principally, on the affected areas of the Permit and the changes proposed since the receipt of the Permit.
- 1.4.3 Where there is no change proposed, this Document (including the application forms that are contained herein) either makes no comment or refers back to the original application documentation (of November 2008).
- 1.4.4 For ease of reference, the following terminology is adopted:
- Application EPR/TP3538GF (or, the Application):
 - Tees Renewable Energy Plant Application for an Environmental Permit (Doc Ref:63265/PBP/000005, November 2008);
 - Permit EPR/TP3538GF (or, the Permit):
 - Environmental Permit Number EPR/TP3538GF (December 2009); and
 - Application to Vary Bespoke Environmental Permit Number EPR/TP3538GF (or, the Variation):
 - Tees Renewable Energy Plant Application to Vary the Environmental Permit (Doc Ref: 508042-1, June 2015)

2 SUMMARY OF IED COMPLIANCE INFORMATION

2.1 Installation Details

2.1.1 Within the Large Combustion Plants Emission Inventory, the Development is listed as:

- Plant Number: 403
- Plant Name: MGT Teesside Limited

2.2 Approach to Compliance with Industrial Emissions Directive

2.2.1 As per Article 30(2) of the IED, given that the Development has not commenced operation, the ELVs set out in Part 2 of Annex V (and the prevailing LCP BREF) will apply.

2.2.2 Appropriate amendments to the currently permitted ELVs are the subject of the application to vary the bespoke Permit included in this Document. The abatement techniques proposed in the Application (and accepted within the Permit) remain in line with the current BAT and no changes to these techniques are proposed as part of the Variation.

2.3 Configuration of Installation

2.3.1 The regulated activity, as per the EPR, within the Development is:

- Schedule 1, Section 1.1, Part A(1)(a) – Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts.

The Development will comprise a circulating fluidised bed (CFB) boiler, with a net rated thermal input of approximately 810 MW, discharging flue gases to a dedicated stack (of approximate height 95 m).

2.3.2 The Development will include a small auxiliary boiler with a dedicated stack of a height approximately 15 m.

2.3.3 A stand-by (emergency) generator will also be provided.

2.4 Proposed Fuels

2.4.1 The Application was prepared on the basis that the Development would be fuelled by wood chips. This was the main biomass fuel that was available at the time.

2.4.2 Since the granting of the Permit, the biomass fuel market has developed and increased the variety of biomass fuels that are currently available. As a result, the design of the Development has progressed and the preferred CFB boiler has the ability to mix fuels and the flexibility to be fuelled on a range of blended biomass fuels. It is now intended that the Development will be fuelled by wood chips and wood pellets.

2.4.3 Appropriate amendments to the Permit for the Development based on the proposed increased range of fuels are the subject of the application to vary the bespoke Permit that is included in this document.

2.4.4 In addition, gas oil (with a sulphur content of <0.1% w/w) is currently permitted for use within the Development for start-up and shutdown of the Development and for use in the auxiliary boiler and emergency generator.

2.5 Defining Start-Up and Shutdown

2.5.1 In order to ensure appropriate regulation of the operation of large combustion plant (as is proposed for the Development), the EU Commission Implementing Decision 2012/249/EU concerning the determination of start-up and shut-down periods for the purposes of the IED (May 2012, the Decision) provides rules for such determinations that are required to be:

- Transparent and externally verifiable; and
- Based on conditions allowing stable generation (safeguarding health and safety).

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2.5.2 It is required that the definition of the end of the start-up and the commencement of shutdown (for regulatory purposes) to be expressed by at least one of:

- Load thresholds; and / or
- Discrete processes or thresholds for operational parameters.

2.5.3 Operators are also required to ensure that the length of start-up and shutdown is minimised as far as is practicable.

Minimum Load Thresholds for Stable Generation

2.5.4 This sub-section describes how the end of the start-up and the commencement of shutdown (for regulatory purposes) will be defined.

2.5.5 In accordance with Article 6 of the Decision, it is proposed that the end of the start-up of the Development be defined as the point at which the net electrical output of the Development rises above the minimum required for stable generation / operation.

2.5.6 Similarly, the commencement of shutdown (for regulatory purposes) of the Development will be defined the point at which the net electrical output of the Development reduces below the minimum required for stable generation / operation.

2.5.7 The above two 'operating points' will be defined as percentages of the maximum continuous rating of the Development.

2.5.8 These percentages may be influenced by the effect of providing heat from the steam cycle to the proposed wood chip dryer. Article 8, and therefore Article 7, of the Decision will apply in this instance and the definition of the 'operating points' will need to allow for the safe and stable extraction of heat, as well as stable electrical generation.

2.5.9 Upon completion of the detailed design of the Development, it may be the case that the alternative definitions of start-up and shutdown periods, by discrete processes or thresholds for operational parameters, would be more applicable to the Development.

2.5.10 For example, for solid fuel-fired boilers such as the proposed CFB boiler, the end of the start-up process can be defined as the point at which the transition is made from start-up / support fuels (e.g gas oil) and where the combustion of the normal fuel (biomass) can occur without the need for stability / supplementary burners.

2.5.11 In addition, the steam turbine will have specific requirements for the steam produced by the CFB boiler in order for the turbine to operate safely and efficiently. Therefore 'stable operation' could be defined as when the CFB boiler is producing steam within the manufacturer-specific operating ranges (which may include: temperature, pressure, flow rate, etc.)

2.5.12 As discussed in Section 1.3, the Development is not as yet subject to an EPC contract therefore the detailed design specifications (including minimum stable loads) are not currently available. It is proposed that, following the award of such a contract, and completion of the detailed design of the Development, MGT will submit, to the Environment Agency, suitable information in order to accord with the Decision.

2.6 Proposed Emissions Limit Values

2.6.1 As discussed in Section 2.2, the ELVs set out in Part 2 of Annex V will apply to the Development. Appropriate amendments to the currently permitted ELVs are considered within the Variation.

2.6.2 Given that the Variation is sought prior to the completion of the LCP BREF review, the Variation has considered, as per the discussions in Section 1.2, each of the most stringent ELVs as provided in:

- Part 2 of Annex V;
- The Wish List; and,
- The existing LCP BREF.

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- 2.6.3 In accordance with the 'IED BAT ESI Review Paper' (EA, October 2014), the Variation proposes that ELVs should be applied to the Development in accordance with the relevant averaging periods provided in the above documents.
- 2.6.4 Table 2.1 presents the proposed ELVs sought as part of the Variation.

TABLE 2.1: PROPOSED NEW EMISSIONS LIMIT VALUES

Table S4.1: Point Source Emissions to Air – Emission Limits and Monitoring Requirements						
Emission Point Reference and Location	Source	Parameter	Limit (mg/Nm³)^(a)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
A1, Position as indicated on dwg Figure 2 Summary of release points in application	Circulating fluidised bed boiler	Particulate Matter	10	Daily average of hourly averages	Continuous	EN14181
				Calendar monthly mean		
			15	Average over monitoring period	Annual spot monitoring	BS EN13284-1
		Oxides of nitrogen (NO _x)	150	Hourly average	Continuous	EN14181
				Calendar monthly mean		
				Average over monitoring period	Annual spot monitoring	BS EN14792
		Sulphur dioxide (SO ₂)	53	Calendar monthly mean	Continuous	EN14181
			106	97% of validated 24-hour mean values per year		
				Average over monitoring period	Annual spot monitoring	BS EN14791
		Hydrogen chloride (HCl)	20	Daily average of hourly averages	Continuous	EN14181
				Average over monitoring period	Annual spot monitoring	BS EN1911
		Carbon monoxide (CO)	100	Daily average of hourly averages	Continuous	EN14181
			50	Calendar monthly mean		
			100	Average over monitoring period	Annual spot monitoring	BS EN15058
		Ammonia (NH ₃)	5	Average over monitoring period	Annual spot monitoring	EN14181
		Metals	Note 1	Note 1	Note 1	Note 1

(a) These limits do not apply during start-up or shutdown

Note 1: To be confirmed in writing with the Environment Agency following completion of IP2, Table S1.3

2.7 Monitoring Requirements

2.7.1 The Development will fully accord with the monitoring requirements of Part 3 of Annex V of the IED which are:

- The concentrations of the following substances in the flue gases from the CFB Boiler will be monitored continuously:
 - SO₂;
 - NO_x; and,
 - Particulate matter (dust)

In addition, and as per the Permit (which reflect the proposals contained in LCP D1 and LCP D2), continuous measurements will also be made of the concentrations of:

- HCl;
- CO; and,
- NH₃.
- The continuous measurements referred to above will be complemented by the continuous measurement of the following flue gas parameters:
 - Oxygen content;
 - Temperature;
 - Pressure; and,
 - Water vapour.

This data will be used in order to correct all as-measured emissions concentrations to standard reference conditions of: 273.15 K, 101.3 kPa, dry, 6% oxygen.

2.7.2 As per Part 3 of Annex V (Point 8):

"Sampling and analysis of relevant polluting substances and measurements of process parameters as well as the quality assurance of automated measuring systems and the reference measurement methods to calibrate those systems shall be carried out in accordance with CEN standards. If CEN standards are not available, ISO, national or other international standards which ensure the provision of data of an equivalent scientific quality shall apply".

2.7.3 All monitoring of the emissions to air from the Development will be undertaken in full accordance with:

- Technical Guidance Note (Monitoring) M1 – Sampling Requirements for Stack Emission Monitoring;
- Technical Guidance Note (Monitoring) M2 – Monitoring of Stack Emissions to Air;
- EU IPPC Reference Document on the General Principles of Monitoring²; and,
- 'Electricity Supply Industry – IED Compliance Protocol for Utility Boilers and Gas Turbines' (Joint Emissions Programme, February 2015).

2.7.4 Wherever possible, all monitoring (including equipment, procedures and personnel) will be certified to the standards set by the EA MCertS scheme. Where such certification is not possible, other international or national standards will be used with details to be provided, in advance, to the EA.

² This document has been reviewed as part of the wider update of all BAT reference documents and the final draft was published in October 2013. However, at the time of writing, it is understood that the document has not yet been formally adopted.

3 APPLICATION FORMS

Application for an environmental permit

Part A – About you



You will need to fill in this part A if you are applying for a new permit, applying to change an existing permit or surrender your permit, or want to transfer an existing permit to yourself. Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that came with it. Please write clearly in the answer spaces.

Note: if you believe including information on a public register would not be in the interests of national security you must tick the box in section 5 of F1 or F2 and enclose a letter telling us that you have told the Secretary of State. We will not include the information in the public register unless directed otherwise.

It will take less than one hour to fill in this part of the application form.

Where you see the term 'document reference' on the form, give the document references and send the documents with the application form when you've completed it.

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- 3 Applications from an organisation of individuals
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1 About you

Are you applying as an individual, an organisation of individuals (for example, a partnership), a company (this includes Limited Liability Partnerships) or a public body?

An individual

An organisation of individuals (for example, a partnership)

A public body

A registered company or other corporate body

☐ Now go to section 2

☐ Now go to section 3

☐ Now go to section 4

☐ Now go to section 5

2 Applications from an individual

2a Please give us the following details

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Date of birth (DD/MM/YYYY)

Now go to section 6

3 Applications from an organisation of individuals

3a Type of organisation

For example, a charity, a partnership, a group of individuals or a club

3b Details of the organisation

If you are an organisation of individuals, please give the details of the main representative below. If relevant, provide details of other members (please include their title Mr, Mrs and so on) on a separate sheet and tell us the document reference you have given this sheet.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

3 Applications from an organisation of individuals, continued

Last name

Date of birth (DD/MM/YYYY)

Now go to section 6

4 Applications from public bodies

4a Type of public body

For example, NHS trust, local authority, English county council

4b Name of the public body

4c Please give us the following details of the executive

An officer of the public body authorised to sign on your behalf

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Position

Now go to section 6

5 Applications from companies or corporate bodies

5a Name of the company

5b Company registration number

Date of registration (DD/MM/YYYY)

If you are applying as a corporate organisation that is not a limited company, please provide evidence of your status and tell us below the reference you have given the document containing this evidence.

Document reference

Now go to section 6

6 Your address

6a Your main (registered office) address

For companies this is the address on record at Companies House.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

6 Your address, continued

For an organisation of individuals every partner needs to give us their details, including their title Mr, Mrs and so on. So, if necessary, continue on a separate sheet and tell us below the reference you have given the sheet.

Document reference for the extra sheet

6b Main UK business address (if different from above)

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

Now go to section 7

7 Contact details

7a Who can we contact about your application?

This can be someone acting as a consultant or an 'agent' for you.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

7 Contact details, continued

7b Who can we contact about your operation (if different from question 7a)?

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

7c Who can we contact about your billing or invoice?

As in question 7a

☐

As in question 7b

☐

Please give details below if different from question 7a or 7b.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

8 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.environment-agency.gov.uk

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, or you would like us to review a decision we have made, please let us know. More information on how to do this is available at: <https://www.gov.uk/government/organisations/environment-agency/about/complaints-procedure>

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form? _____

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

☐

No thank you

☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐

Amount received

£

Application for an environmental permit – Part C2 – General – varying a bespoke permit



Fill in this part of the form, together with part A and the relevant parts of C3 to C7 and part F1 or F2, if you are applying to vary (change) the conditions or any other part of the permit. Please check that this is the latest version of the form available from our website.

You only need to give us details in this application for the parts of the permit that will be affected (for example, if you are adding a new facility or changing existing ones).

Waste operation changing to installation or vice versa?

If your changes mean that a waste operation becomes an installation (or vice versa) you also need to fill in either part C3 (waste to installation) or part C4 (installation to waste).

You do not need to resend any information from your original permit application if it is not affected by your proposed changes.

Please read through this form and the guidance notes that came with it. Please write clearly in the answer spaces.

It will take less than two hours to fill in this form.

Contents

- 1 About the permit
- 2 About your proposed changes
- 3 Your ability as an operator
- 4 Consultation
- 5 Supporting information
- 6 Environmental risk assessment
- 7 How to contact us

Appendix 1 – Low impact installation checklist

1 About the permit

Note: If you are applying to convert your existing permit to a standard permit or add a standard facility you need to fill out form C1.

1a Discussions before your application

If you have had discussions with us before your application, provide the permit reference number or details on a separate sheet and tell us below the reference you have given the document.

Permit or document reference

1b Permit number

What is the permit number that this application relates to?

1c Site details

What is the name, address and postcode of the site?

Site name

Address

Postcode

2 About your proposed changes

2a Type of variation

What type of variation are you applying for? (Please tick)

Standalone water discharge activity or point source groundwater activity

☐

Minor technical

☐

Normal variation

☐

Substantial

☐

2 About your proposed changes, continued

2b Changes or additions to existing activities

Please give us brief details in the box below. More detailed information can be given in Table 1 below.

--

Fill in Table 1 with details of all the proposed changes to current activities. In the final column of the table, give us the document reference for the proposed changes and send them to us with your filled in application form.

Fill in a separate table for each activity you are applying to vary or add. Use a separate sheet if you have a long list and send it to us with your application form. Tell us below the reference you have given this document.

Document reference

--

You only need to fill in one table for your mining waste operations.

2c Consolidating (combining) or updating existing permits

If your proposed change is to modernise (update) your permit, now answer 2c1; otherwise go to 2d.

If your proposed change is to consolidate (combine) a number of permits, now answer 2c2; otherwise go to 2d.

Note: In both cases we may require additional information from you about, for example, your management system. Therefore we would always advise you to talk to us before you submit any application to modernise or consolidate permits. Please see the 'Making an application' web page at www.environment-agency.gov.uk.

2c1 Do you want to have a modern style permit?

No ☐

Yes ☐

2c2 Identify all the permits you want to consolidate (combine) by listing the permit numbers in Table 2 below.

Table 2 – Permit numbers

2d Treating batteries

Are you proposing to treat batteries?

No ☐

Yes ☐ Tell us how you will do this and send us a copy of your explanation

Document reference for the explanation

--

2e Low impact installations (installations only)

Will any changes mean that any of the regulated facilities will become low impact installations?

No ☐ Now go to section 3

Yes ☐

If yes, tell us how you meet the conditions for a low impact installation (see the guidance in appendix 1).

Document reference for the explanation

--

Tick the box to confirm you have filled in the low impact installation checklist in appendix 1 for each regulated facility. ☐

Now go to section 3

Table 1 – Changes to existing activities

Name	Installation schedule 1 references	Description of the installation activity	Description of waste operation	Description of the mining waste operations	Description of water discharge activity	Description of groundwater activity	Proposed changes document reference
i.e. name of installation, waste operation, mining waste operation, water discharge activity or groundwater activity							
Example – Effluent unique name					Example – treated sewage effluent		
If you do not have enough room, go to the line below or send a separate document and give us the document reference here							

3 Your ability as an operator

If you are applying to add waste installations or waste operations to a permit that has not previously had them, you need to fill in all of section 3.

If you are applying to consolidate (combine) two or more permits or have an updated permit you must fill in question 3d.

This section does not apply for applications to surrender a permit.

3a Relevant offences (installations and waste operations only – see the guidance notes on part C2)

Have you, or any other relevant person, been convicted of any relevant offence?

No ☐ Now go to question 3b

Yes ☐ Please give details below

Name of the relevant person

Title (Mr, Mrs, Miss and so on)

First name

Last name

Date of birth (DD/MM/YYYY)

Position at the time of the offence

Name of the court

Date of the conviction (DD/MM/YYYY)

Offence and penalty set

Date any appeal against the conviction will be heard

(DD/MM/YYYY)

If necessary, use a separate sheet to give us details of other relevant offences (and post conviction plans if relevant) and tell us below the reference number you have given the extra sheet.

Document reference of the extra sheet

Have you sent us a post conviction plan for this offence?

No ☐ You must send us a post conviction plan with this application and give us the document reference below

Document reference

Yes ☐ Please give us the reference for the post conviction plan you have sent and the date sent in

Post conviction plan reference

Date sent in (DD/MM/YYYY)

Now go to question 3b

3b Technical ability (specified waste management activities and waste operations only – see the guidance notes on part C2)

Please tick the scheme you are using to show you have the suitable technical skills and knowledge to manage your facility.

CIWM/WAMITAB ☐

ESA/EU ☐

Please send in a registration letter from your scheme as above ☐

Now go to question 3c

3c Finances (installations, waste operations and mining waste operations – see the guidance notes on part C2)

Please note that if you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2010.

Do you or any relevant person have current or past bankruptcy or insolvency proceedings against you?

No ☐

Yes ☐ Please give details over page, including the required set-up costs (including infrastructure), maintenance and clean up costs for the proposed facility against which a credit check may be assessed.

3 Your ability as an operator, continued

We may want to contact a credit reference agency for a report about your business's finances.

Landfill, Category A mining waste facilities and mining waste facilities for hazardous waste only

How do you plan to make financial provision (to operate a landfill or a mining waste facility you need to show us that you are financially capable of meeting the obligations of closure and aftercare)?

- Bonds ☐
- Escrow account ☐
- Trust fund ☐
- Lump sum ☐
- Other ☐

Provide a plan of your estimated expenditure on each phase of the landfill or mining waste facility.

Give the document plan reference number

Now go to question 3d

3d Management systems

You can find guidance on management systems in 'How to Comply'. We have also developed environmental management toolkits for some business sectors which you can use to produce your own management system. You can get these by calling 03708 506 506 or by downloading them from our website at www.environment-agency.gov.uk.

Does your management system meet the conditions set out in our guidance?

No ☐

Yes ☐

What management system will you provide for your regulated facility?

- EC Eco-Management and Audit Scheme (EMAS) ☐
- ISO 14001 ☐
- BS 8555 (Phases 1–5) ☐
- Green Dragon ☐
- Own management system ☐

You must send us a summary of your management system with your application.

Document reference or references for this summary

4 Consultation (fill in 4a to 4c for installations and waste operations and 4d for installations only)

Could the waste operation or installation involve releasing any substance into any of the following?

4a A sewer managed by a sewerage undertaker?

No ☐

Yes ☐ Please name the sewerage undertaker

4b A harbour managed by a harbour authority?

No ☐

Yes ☐ Please name the harbour authority

4c Directly into relevant territorial waters or coastal waters within the sea fisheries district of a local fisheries committee?

No ☐

Yes ☐ Please name the fisheries committee

4 Consultation (fill in 4a to 4c for installations and waste operations and 4d for installations only), continued

4d Is the installation on a site for which

4d1 a nuclear site licence is needed under section 1 of the Nuclear Installations Act 1965?

No ☐

Yes ☐

4d2 a policy document for preventing major accidents is needed under regulation 5 of the Control of Major Accident Hazards Regulations 1999, or a safety report is needed under regulation 7 of those regulations?

No ☐

Yes ☐

5 Supporting information

5a Provide a plan or plans for the site (see the guidance notes on part C2 for what needs to be marked on the plan)

Document plan reference or references

5b Do any of the variations you plan to make need extra land to be included in the permit?

No ☐

Yes ☐ Please provide a site report for the extra land.

Document report reference or references

5c Provide a non-technical summary of your application

Document reference

5d Adding an installation

If you are applying to add an installation, tick the box to confirm that you have sent in a baseline report and provide a reference.

☐

Document reference of the report

6 Environmental risk assessment (if you need one – see the guidance notes on part C2)

Provide an assessment of the risks each of your proposed activities cause to the environment. The risk assessment must use H1 or an equal method.

Document reference of the assessment

7 How to contact us

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Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

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How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

☐

No thank you

☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐

Amount received

£ _____

Plain English Campaign's Crystal Mark does not apply to appendix 1.**Appendix 1 – Low impact installation checklist**

Installation reference				
Condition	Response			Do you meet this?
A – Management techniques	Provide references to show how your application meets A.			Yes <input type="checkbox"/>
	References			No <input type="checkbox"/>
B – Aqueous waste	Effluent created		m ³ /day	Yes <input type="checkbox"/> No <input type="checkbox"/>
C – Abatement systems	Provide references to show how your application meets C.			Yes <input type="checkbox"/>
	References			No <input type="checkbox"/>
D – Groundwater	Do you plan to release any hazardous substances or non-hazardous pollutants into the ground?		Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
E – Producing waste	Hazardous waste		Tonnes per year	Yes <input type="checkbox"/>
	Non-hazardous waste		Tonnes per year	No <input type="checkbox"/>
F – Using energy	Peak energy consumption		MW	Yes <input type="checkbox"/> No <input type="checkbox"/>
G – Preventing accidents	Do you have appropriate measures to prevent spills and major releases of liquids? (See 'How to comply'.)		Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
	Provide references to show how your application meets G.			
	References			
H – Noise	Provide references to show how your application meets H.			Yes <input type="checkbox"/>
	References			No <input type="checkbox"/>
I – Emissions of polluting substances	Provide references to show how your application meets I.			Yes <input type="checkbox"/>
	References			No <input type="checkbox"/>
J – Odours	Provide references to show how your application meets J.			Yes <input type="checkbox"/>
	References			No <input type="checkbox"/>
K – History of keeping to the regulations	Say here whether you have been involved in any enforcement action as described in Compliance History Appendix 1 explanatory notes.		Yes <input type="checkbox"/> No <input type="checkbox"/>	

Application for an environmental permit

Part C3 – Variation to a bespoke installation permit



Fill in this part of the form, together with part A, part C2 and part F1, if you are applying to vary (change) the conditions or any other part of the permit. Please check that this is the latest version of the form available from our website.

You only need to give us details in this application for the parts of the permit that will be affected (for example, if you are adding a new facility or making changes to existing ones).

You do not need to resend any information from your original permit application if it is not affected by your proposed changes.

Please read through this form and the guidance notes that came with it. Please write clearly in the answer spaces.

It will take less than three hours to fill in this part of the application form.

Contents

- 1 What activities are you applying to vary?
- 2 Emissions to air, water and land
- 3 Operating techniques
- 4 Monitoring
- 5 Environmental impact assessment
- 6 Resource efficiency and climate change
- 7 How to contact us

Appendix 1 – Specific questions for the combustion sector

Appendix 2 – Specific questions for the chemical sector

Appendix 3 – Specific questions for the intensive farming sector

Appendix 4 – Specific questions for the clinical waste sector

Appendix 5 – Specific questions for the hazardous and non-hazardous waste recovery and disposal sector

Appendix 6 – Specific questions for the waste incineration sector

Appendix 7 – Specific questions for the landfill sector

1 What activities are you applying to vary?

Fill in Table 1a below with details of all the activities listed in schedule 1 of the Environmental Permitting Regulations (EPR) and all directly associated activities (DAAs) (in separate rows), that you propose to carry out at the installation.

Fill in a separate table for each installation you are applying to vary. Use a separate sheet if you have a long list and send it to us with your application form. Tell us below the reference you have given the document.

Document reference

Table 1a – Types of activities

Schedule 1 listed activities						
Installation name	Schedule 1 references (See note 1)	Description of the Activity (See note 2)	Activity capacity (See note 3)	Annex I (D codes) and Annex II (R codes) and descriptions	Hazardous waste treatment capacity (if this applies) (See note 3)	Non-hazardous waste treatment capacity (if this applies) (See note 3)
Add extra rows if you need them. If you do not have enough room, go to the line below or send a separate document and give us the document reference here	Put your main activity first			For installations that take waste only	For installations that take waste only	For installations that take waste only
Directly associated activities (See note 4)						
Name of DAA		Description of the DAA (please identify the schedule 1 activity it serves)				
Add extra rows if you need them						
For installations that take waste		Total storage capacity (See note 5 below)				
		Annual throughput (tonnes each year)				

1 What activities are you applying to vary?, continued

Notes

- 1 Quote the section number, part A1 or A2 or B, then paragraph and sub paragraph number as shown in part 2 of schedule 1 to the regulations.
- 2 Use the description from schedule 1 of the regulations. Include any extra detail that you think would help to accurately describe what you want to do.
- 3 By 'capacity', we mean:
 - the total incineration capacity (tonnes every hour) for waste incinerators;
 - the total landfill capacity (cubic metres) for landfills;
 - the total treatment capacity (tonnes each day) for waste treatment;
 - the total storage capacity (tonnes) for waste storage operations;
 - the processing and production capacity for manufacturing operations; or
 - the thermal input capacity for combustion activities.
- 4 Fill this in as a separate line and give an accurate description of any other activities associated with your schedule 1 activities. You cannot have DAAs as part of a mobile plant application.
- 5 By 'total storage capacity', we mean the maximum amount of waste, in tonnes, you store on the site at any one time.

Types of waste accepted

For those installations that take waste, for each line in Table 1a (including DAAs), fill in a separate document to list those wastes you will accept on to the site for that activity. Give the List of Wastes catalogue code and description. If you need to exclude waste from your activity or facility by restricting the description, quantity, physical nature, hazardous properties, composition or characteristic of the waste, include these in the document. Send it to us with your application form.

Please provide the reference for each document.

You can use Table 1b as a template.

If you want to accept any wastes with a code ending in 99, you must give us more information and a full description.

Document reference for this extra information

Table 1b – Template example – types of waste accepted and restrictions

Waste code	Description of waste
Example 02 01 08* 06 01 02*	Example Agrochemical waste containing dangerous substances Hydrochloric acid

2 Emissions to air, water and land

Fill in Table 2 below with details of the emissions that result from the operating techniques at each of your installations.

Fill in one table for each installation.

Table 2 – Emissions

Installation name				
Point source emissions to air				
Emission point reference and location	Source	Parameter	Quantity	Unit

2 Emissions to air, water and land, continued

Table 2 – Emissions, continued

Point source emissions to water (other than sewers)				
Emission point reference and location	Source	Parameter	Quantity	Unit
Point source emissions to sewers, effluent treatment plants or other transfers off site				
Emission point reference and location	Source	Parameter	Quantity	Unit
Point source emissions to land				
Emission point reference and location	Source	Parameter	Quantity	Unit

Supporting information

3 Operating techniques

3a Technical standards

Fill in Table 3 for each activity, at the installation you have referred to in Table 1a above. List the relevant technical guidance note (TGN) or notes you are planning to use. If you are planning to use the standards set out in the TGN, there is no need to justify using them.

You must justify your decisions in a separate document if:

- there is no technical standard;
- the technical guidance provides a choice of standards; or
- you plan to use another standard.

This justification could include a reference to the Environmental Risk Assessment provided in part C2 (general bespoke permit) of the application form.

The documents you have referenced in Table 3 should summarise the main measures you use to control the main issues identified in the H1 assessment or technical guidance. For each of the activities listed in Table 3, describe the type of operation and the options you have chosen for controlling emissions from your process.

3 Operating techniques, continued

Table 3 – Technical standards

Fill in a separate table for each activity at the installation.

Installation name		
Description of the schedule 1 activity or directly associated activity	Relevant technical guidance note or Best available techniques as described in BAT conclusions under IED (see footnote below. You will need to refer to 'How to comply' for all permits)	Document reference (if appropriate)
	'How to comply'	

*Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

If appropriate, use block diagrams to help describe the operation and process. Provide the references for the description.

Document reference for the diagram or description

3b General requirements

Fill in a separate Table 4 for each installation.

Table 4 – General requirements

Name of the installation	
If the TGN or H1 assessment shows that emissions of substances not controlled by emission limits are an important issue, send us your plan for managing them	Document reference or references
Where the TGN or H1 assessment shows that odours are an important issue, send us your odour management plan	Document reference or references
If the TGN or H1 assessment shows that noise or vibration are important issues, send us your noise or vibration management plan (or both)	Document reference or references

3c Types and amounts of raw materials

Fill in Table 5 for all schedule 1 activities. Fill in a separate table for each installation.

Table 5 – Types and amounts of raw materials

Name of the installation				
Capacity (See note 1 below)				
Schedule 1 activity	Description of raw material and composition	Maximum amount (tonnes) (See note 2 below)	Annual throughput (tonnes each year)	Description of the use of the raw material including any main hazards (include safety data sheets)

Notes

1 By 'capacity', we mean the total storage capacity (tonnes) or total treatment capacity (tonnes each day).

2 By 'maximum amount', we mean the maximum amount of raw materials on the site at any one time.

3 Operating techniques, continued

Use a separate sheet if you have a long list of raw materials, and send it to us with your application form. Please also provide the reference for this extra sheet.

Document reference for the sheet

3d Information for specific sectors

For some of the sectors, we need more information to be able to set appropriate conditions in the permit. This is as well as the information you may provide in sections 5, 6 and 7. For those activities listed below, you must answer the questions in the related document.

Table 6 – Questions for specific sectors

Sector	Appendix
Combustion	See the questions in appendix 1
Chemicals	See the questions in appendix 2
Intensive farming	See the questions in appendix 3
Clinical waste	See the questions in appendix 4
Hazardous and non-hazardous waste recovery and disposal	See the questions in appendix 5
Incinerating waste	See the questions in appendix 6
Landfill	See the questions in appendix 7

General information

4 Monitoring

4a Describe the measures you use for monitoring emissions by referring to each emission point in Table 2 above

You should also describe any environmental monitoring. Tell us:

- how often you use these measures;
- the methods you use; and
- the procedures you follow to assess the measures.

Document reference

4b Point source emissions to air only

Provide an assessment of the sampling locations used to measure point source emissions to air. The assessment must use M1.

Document reference of the assessment

5 Environmental impact assessment

5a Have your proposals been the subject of an environmental impact assessment under Council Directive 85/337/EEC of 27 June 1985 [Environmental Impact Assessment]?

No ☐

Yes ☐ Please provide a copy of the environmental statement and, if the procedure has been completed:

- a copy of the planning permission; and
- the committee report and decision on the EIA.

Document reference for the copy

6 Resource efficiency and climate change

If the site is a landfill, you only need to fill in this section if the application includes landfill gas engines.

6a Describe the basic measures for improving how energy efficient your activities are

Document reference for the description

6b Provide a breakdown of any changes to the energy your activities use up and create

Document reference for the description

6c Have you entered into, or will you enter into, a climate change levy agreement?

No ☐ Describe the specific measures you use for improving your energy efficiency.

Document reference for the description

6 Resource efficiency and climate change, continued

Yes ☐ Please give the date you entered (or the date you expect to enter) into the agreement. Please also provide documents that prove you are taking part in the agreement (DD/MM/YYYY)

Document reference of proof

6d Explain and justify the raw and other materials, other substances and water that you will use

Document reference of the justification

6e Describe how you avoid producing waste in line with Council Directive 2008/98/EC on waste

If you produce waste, describe how you recover it. If it is technically and financially impossible to recover the waste, describe how you dispose of it while avoiding or reducing any effect it has on the environment.

Document reference of the description

7 How to contact us

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We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

☐

No thank you

☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐

Amount received

£ _____

Plain English Campaign's Crystal Mark does not apply to appendices 1 to 7.**Appendix 1 – Specific questions for the combustion sector****1 Identify the type of fuel burned in your combustion units (including when your units are started up, shut down and run as normal). If your units are dual fuelled (that is, use two types of fuel), list both the fuels you use**

Fill in a separate table for each installation.

Installation reference			
Type of fuel	When run as normal	When started up	When shut down
Coal			
Gas oil			
Heavy fuel oil			
Natural gas			
WID waste			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Biomass (see notes 1 and 2 below)			
Other			

Notes

1 Not covered by Industrial Emissions Directive 2010/75/EU.

2 'Biomass' is referred to in www.opsi.gov.uk/si/si2002/20020914.htm.

Give extra information if it helps to explain the fuel you use.

Document reference

2 Give the composition range of any fuels you are currently allowed to burn in your combustion plant

Fill in a separate table for each installation.

Fuel use and analysis					
Installation reference					
Parameter	Unit	Fuel 1	Fuel 2	Fuel 3	Fuel 4
Maximum percentage of gross thermal input	%				
Moisture	%				
Ash	% wt/wt dry				
Sulphur	% wt/wt dry				
Chlorine	% wt/wt dry				
Arsenic	% wt/wt dry				
Cadmium	% wt/wt dry				
Carbon	% wt/wt dry				
Chromium	% wt/wt dry				
Copper	% wt/wt dry				
Hydrogen	% wt/wt dry				
Lead	% wt/wt dry				
Mercury	% wt/wt dry				
Nickel	% wt/wt dry				
Nitrogen	% wt/wt dry				
Oxygen	% wt/wt dry				
Vanadium	mg/kg dry				
Zinc	mg/kg dry				
Net calorific value	MJ/kg				

Appendix 1 – Specific questions for the combustion sector, continued**3 If NO_x factors are necessary for reporting purposes (that is, if you do not need to monitor emissions), please provide the factors associated with burning the relevant fuels**

Fill in a separate table for each installation.

Installation reference	
Fuel	NO _x factor (kg t ⁻¹)
Fuel 1	
Fuel 2	
Fuel 3	
Fuel 4	

Note: kg t⁻¹ means kilograms of nitrogen oxides released for each tonne of fuel burned.**4 Will your combustion plant be subject to Chapter III of the Industrial Emissions Directive 2010/75/EU? (see Government Guidance)**No ☐ Now fill in part FYes ☐**5 Is your plant**an existing plant (a plant licensed before 1 July 1987)? ☐a new plant (a plant licensed on or after 1 July 1987 but before 27 November 2002, or a plant for which an application was made before 27 November 2002 and which was put into operation before 27 November 2003)? ☐

or

a new-new plant (a plant for which an application was made on or after 27 November 2002)? ☐**6 If you run more than one type of plant or a number of the same type of plant on your installation, please list them in the table below**

Fill in a separate table for each installation.

Installation reference	
Type of plant	Number within installation
Existing	
New	
New-new	
Gas turbine (group A)	
Gas turbine (group B)	

7 If you run an existing plant, have you submitted a declaration for the ‘limited life derogation’ set out in Article 33 of Chapter III of the Industrial Emissions Directive?No ☐ Now go to section 9Yes ☐**8 Have you subsequently withdrawn your declaration?**No ☐Yes ☐

9 List the existing large combustion plants (LCPs) which have annual mass allowances under the National Emission Reduction Plan (NERP), and those with emission limit values (ELVs) under the LCPD

Installation reference	
LCPs under NERP	LCPs with ELVs

10 Do you meet the monitoring requirements of Chapter III of the Industrial Emissions Directive?

Yes ☐

Document reference number

Appendix 2 – Specific questions for the chemical sector

1 Please provide a technical description of your activities

The description should be enough to allow us to understand:

- the process;
- the main plant and equipment used for each process;
- all reactions, including significant side reactions (that is, the chemistry of the process);
- the material mass flows (including by products and side streams) and the temperatures and pressures in major vessels;
- the all emission control systems (both hardware and management systems), for situations which could involve releasing a significant amount of emissions – particularly the main reactions and how they are controlled;
- a comparison of the indicative BATs and benchmark emission levels standards in Technical Guidance Notes (TGNs) EPR 4.01, EPR 4.02 and EPR 4.03 and chemical sector BREFs.

Document reference

2 If you are applying for a multi-purpose plant, do you have a multi-product protocol in place to control the changes?

No ☐

Yes ☐ Provide a copy of your protocol to accompany this application

Document reference

3 Does Chapter V of the Industrial Emissions Directive (IED) apply to your activities?

No ☐

Yes ☐ Fill in the following

3a List the activities which are controlled under the IED

Installation reference	
Activities	

3b Describe how the list of activities in question 3a above meets the requirements of the IED

Document reference

Appendix 3 – Specific questions for the intensive farming sector

1 For each type of livestock, tell us the number of animal places you are applying for

Installation reference	
Type of livestock	Number of places

2 Is manure or slurry exported from the site?

No ☐

Yes ☐

3 Is manure or slurry spread on the site?

No ☐

Yes ☐

Appendix 4 – Specific questions for the clinical waste sector

If you are applying for an activity covered by the Waste Incineration Directive and wish to accept clinical waste you should fill in questions 1, 2 and 3 of this appendix.

Note: If your procedures are fully in line with the standards set out in EPR5.07 then you should tick the ‘yes’ box and provide the procedure reference. There is no need for you to supply a copy of the procedure.

1 Are pre-acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.2 of EPR 5.07 and which are used to assess a waste enquiry before it is accepted at the installation?

No ☐ Provide justification for departure from EPR 5.07 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

2 Are waste acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.2 of EPR 5.07, and which are used to cover issues such as loads arriving and being inspected, sampling waste, rejecting waste, and keeping records to track waste?

No ☐ Provide justification for departure from EPR 5.07 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

3 Are waste storage, handling and dispatch procedures, and infrastructure in place that are fully in line with the appropriate measures set out in section 3.2 of EPR 5.07?

No ☐ Provide justification for departure from EPR 5.07 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

4 Are monitoring procedures in place that are fully in line with the appropriate measures set out in section 3.3 of EPR 5.07?

No ☐ Provide justification for departure from EPR 5.07 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

5 Are you proposing to either

- accept an additional waste not included in Table 2.1 of section 2.1 of EPR 5.07, or
- apply a permitted activity to a waste other than that identified for that waste in Table 2.1?

No ☐

Yes ☐ Provide justification

Document reference

6 Please provide a summary description of the treatment activities undertaken on the installation. This should cover the general principles set out in section 2.1.4 of EPR 5.07

Document reference

7 Please provide layout plans detailing the location of each treatment plant and main plant items and process flow diagrams for the treatment plant

Document reference

Appendix 5 – Specific questions for the hazardous and non-hazardous waste recovery and disposal sector

Note: If your procedures are fully in line with the standards set out in SGN 5.06 then you should tick the 'yes' box and provide the procedure reference. There is no need for you to supply a copy of the procedure.

1 Are pre-acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.1.1 of SGN 5.06, and which are used to assess a waste enquiry before it is accepted at the installation?

No ☐ Provide justification for departure from SGN 5.06 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

2 Are waste acceptance procedures in place that are fully in line with the appropriate measures set out in section 2.1.2 of SGN 5.06, and which are used to cover issues such as loads arriving and being inspected, sampling waste, rejecting waste, and keeping records to track waste?

No ☐ Provide justification for departure from SGN 5.06 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

3 Are waste storage procedures and infrastructure in place that are fully in line with the appropriate measures set out in section 2.1.3 of SGN 5.06?

No ☐ Provide justification for departure from SGN 5.06 and submit a copy of the procedures

Document reference

Yes ☐ Document reference

4 Provide a layout plan giving details of where the installation is based, the infrastructure in place (including areas and structures for separately storing types of waste which may be dangerous to store together) and capacity of waste storage areas and structures

Document reference

5 Provide a summary of the treatment activities carried out on the installation. This should cover the general principles set out in section 2.1.4 of SGN 5.06 and the specific principles set out in sections 2.1.5 to 2.1.15 as appropriate of SGN 5.06

Document reference

6 Provide layout plans giving details of where each treatment plant is based, the main items at each plant, and process flow diagrams for the treatment plant

Document reference or references

Appendix 6 – Specific questions for the waste incineration sector

If you are proposing to accept clinical waste please also fill in questions 1, 2 and 3 of appendix 4 above.

1a Do you run incineration plants as defined by Chapter IV of the Industrial Emissions Directive (IED)?

No ☐ You do not need to answer any other questions in this appendix

Yes ☐ IED applies

1b Are you subject to IED as an incinerator or co-incinerator?

As an incinerator ☐

As a co-incinerator ☐

2 Do any of the installations contain more than one incineration line?

No ☐ Now go to section 4

Yes ☐

3 How many incineration lines are there within each installation?

Fill in a separate table for each installation

Installation reference	
Number of incineration lines within the installation	
Reference identifiers for each line	

You must provide the information we ask for in questions 4, 5 and 6 below in separate documents. The information must at least include all the details set out in section 2 ('Key Issues') of TGN S5.01 (under the sub heading 'European legislation and your application for an EP Permit').

You must answer questions 7 to 13 on the form below.

4 Describe how the plant is designed, equipped and will be run to make sure it meets the requirements of IED, taking into account the categories of waste which will be incinerated

Document reference

5 Describe how the heat created during the incineration and co-incineration process is recovered as far as possible (for example, through combined heat and power, creating process steam or district heating)

Document reference

6 Describe how you will limit the amount and harmful effects of residues and describe how they will be recycled where this is appropriate

Document reference

For each line identified in question 3, answer questions 7 to 13 below

Question 3 identifier, if necessary

7 Do you want to take advantage of the Article 45 (1)(f) allowance (see below) if the particulates, CO or TOC continuous emission monitors (CEM) fail?

No ☐

Yes ☐ This allows 'abnormal operation' of the incineration plant under certain circumstances when the CEM for releases to air have failed. Annex VI, Part 3(2) sets maximum half hourly average release levels for particulates (150mg/m³), CO (normal ELV) and TOC (normal ELV) during abnormal operation.

Describe the other system you use to show you keep to the requirements of Article 13(4) (for example, using another CEM, providing a portable CEM to insert if the main CEM fails, and so on).

Appendix 6 – Specific questions for the waste incineration sector, continued

8 Do you want to replace continuous HF emission monitoring with periodic hydrogen fluoride (HF) emission monitoring by relying on continuous hydrogen chloride (HCl) monitoring as allowed by IED Annex VI, Part 6 (2.3)?

Under this you do not have to continuously monitor emissions for hydrogen fluoride if you control hydrogen chloride and keep it to a level below the HCl ELVs.

No ☐

Yes ☐ Please give reasons for doing this

9 Do you want to replace continuous water vapour monitoring with pre-analysis drying of exhaust gas samples, as allowed by IED Annex VI, Part 6 (2.4)?

Under this you do not have to continuously monitor the amount of water vapour in the air released if the sampled exhaust gas is dried before the emissions are analysed.

No ☐

Yes ☐ Please give your reasons for doing this

10 Do you want to replace continuous hydrogen chloride (HCl) emission monitoring with periodic HCl emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?

Under this you do not have to continuously monitor emissions for hydrogen chloride if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No ☐

Yes ☐ Please give your reasons for doing this

Appendix 6 – Specific questions for the waste incineration sector, continued

11 Do you want to replace continuous HF emission monitoring with periodic HF emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?

Under this you do not have to continuously monitor emissions for hydrogen fluoride if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No ☐

Yes ☐ Please give your reasons for doing this

12 Do you want to replace continuous SO₂ emission monitoring with periodic sulphur dioxide (SO₂) emission monitoring, as allowed by IED Annex VI, Part 6 (2.5), first paragraph?

Under this you do not have to continuously monitor emissions for sulphur dioxide if you can prove that the emissions from this pollutant will never be higher than the ELVs allowed.

No ☐

Yes ☐ Please give your reasons for doing this

13 If your plant uses fluidised bed technology, do you want to apply for a derogation of the CO WID ELV to a maximum of 100 mg/m³ as an hourly average, as allowed by IED Annex VI, Part 3?

No ☐

Does not apply ☐

Yes ☐ Please give your reasons for doing this

Appendix 7 – Specific questions for the landfill sector

1 Provide your Environmental Setting and Installation Design (ESID) report

Document reference

2 Provide your hydrogeological risk assessment (HRA) for the site

Document reference

3 Provide your stability risk assessment (SRA) for the site

Document reference

4 Provide your landfill gas risk assessment (LFGRA) for the site

Document reference

We have developed templates for these four reports which can be found within H1 – Landfill Annex.

5 Provide your proposed plan for closing the site and your procedures for looking after the site once it has closed

Document reference



It will take less than two hours to fill in this part of the application form.

- 1 Working out charges
- 2 Opra
- 3 Payment
- 4 The Data Protection Act 1998
- 5 Confidentiality and national security
- 6 Declaration
- 7 Application checklist
- 8 How to contact us
- 9 Where to send your application

Note: for Opra charged Tier 3 Facilities you also need to complete an Opra profile (see section 2).

Type of application				
	Summary of charges			
Tier 2 facilities (including Part A(2) and Part B; see guidance notes on part F1)	Charge identifier	Number of facilities	Charge for each facility (£)	Charges due (£)
Tier 3 facilities				
Total Opra charging score for installations		× charge multiplier		=
Total Opra charging score for waste operations		× charge multiplier		=
Total Opra charging score for mining waste facilities		× charge multiplier		=
Other charges				
Total charges due				

2 Opra (does not apply to standard facilities, any other tier 2 permit applications (e.g. groundwater land spreading activities), or water-discharge or groundwater point source discharge activities)

If you are submitting a bespoke application, you must include a completed electronic copy in Excel of the current Opra spreadsheet.

For most variations, full and partial surrenders you will need to submit a copy of your current Opra profile based on your existing profile, not any new profile following the variation or surrender. Check the latest charges guidance for further advice.

For transfers you will need to submit a revised Opra profile to include your own operator performance. Note: this will not change the set transfer fee.

Tick this box to confirm that you have included the OPRA spreadsheet

☐

3 Payment

Tick below to show how you have paid.

Cheque

☐

Postal order

☐

Cash

☐

Tick below to confirm you are enclosing cash with the application

Credit or debit card

☐

Electronic transfer (for example, BACS)

☐

Remittance number

Date paid (DD/MM/YYYY)

How to pay

Paying by cheque, postal order or cash

Cheque details

Cheque made payable to

Cheque number

Amount

£

You should make cheques or postal orders payable to 'Environment Agency' and make sure they have 'A/c Payee' written across them if it is not already printed on.

Please write the name of your company and application reference number on the back of your cheque or postal order.

We will not accept cheques with a future date on them.

We do not recommend sending cash through the post. If you cannot avoid this, please use a recorded delivery postal service and enclose your application reference details. Please tick the box below to confirm you are enclosing cash.

I have enclosed cash with my application

☐

Paying by credit or debit card

If you are paying by credit or debit card, either we can call you or you can fill in the separate form CC1 and enclose it with the application. We will destroy your card details once we have processed your payment. We can accept payments by Visa, MasterCard or Maestro card only.

Please call me to arrange payment by debit or debit card

☐

I have enclosed form CC1 with my application

☐

Paying by electronic transfer BACS reference

If you choose to pay by electronic transfer you will need to use the following information to make your payment.

Company name: Environment Agency
 Company address: Income Dept 311, PO Box 263, Peterborough, PE2 8YD
 Bank: Citigroup Centre
 Address: Canada Square, London, E14 5LB
 Sort code: 08-33-00
 Account number: 12800543
 Payment reference number: PSCAPPXXXXYYY

You need to create your own reference number. It should begin with PSCAPP (to reflect that the application is for a permitted activity) and it should include the first five letters of the company name (replacing the X's in the above reference number) and a unique numerical identifier (replacing the Y's in the above reference number). The reference number that you supply will appear on our bank statements.

3 Payment, continued

You should also email your payment details and reference number to FSC-Income@environment-agency.gov.uk or fax it to 01733 464 892.

If you are making your payment from outside the United Kingdom, it must be in sterling. Our IBAN number is GB23 CITI0833 0012 8005 78 and our SWIFTBIC number is CITI GB2LXXX.

If you do not quote your reference number, there may be a delay in processing your payment and application.

Now read section 4 below.

4 The Data Protection Act 1998

We, the Environment Agency, will process the information you provide so that we can:

- deal with your application;
- make sure you keep to the conditions of the licence, permit or registration;
- process renewals; and
- keep the public registers up to date.

We may also process or release the information to:

- offer you documents or services relating to environmental matters;
- consult the public, public organisations and other organisations (for example, the Health and Safety Executive, local authorities, the emergency services, the Department for Environment, Food and Rural Affairs) on environmental issues;
- carry out research and development work on environmental issues;
- provide information from the public register to anyone who asks;
- prevent anyone from breaking environmental law, investigate cases where environmental law may have been broken, and take any action that is needed;
- assess whether customers are satisfied with our service, and to improve our service; and
- respond to requests for information under the Freedom of Information Act 2000 and the Environmental Information Regulations 2004 (if the Data Protection Act allows). We may pass the information on to our agents or representatives to do these things for us.

Now read section 5 below.

5 Confidentiality and national security

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential.

You can ask for information to be made confidential by enclosing a letter with your application giving your reasons. If we agree with your request, we will tell you and not include the information in the public register. If we do not agree with your request, we will let you know how to appeal against our decision, or you can withdraw your application.

Only tick the box below if you wish to claim confidentiality for your application

Please treat the information in my application as confidential ☐

National security

You can tell the Secretary of State that you believe including information on a public register would not be in the interests of national security. You must enclose a letter with your application telling us that you have told the Secretary of State and you must still include the information in your application. We will not include the information in the public register unless the Secretary of State decides that it should be included.

You can find guidance on national security in 'Core Environmental Permitting Guidance' published by Defra and available via our website at www.environment-agency.gov.uk.

You cannot apply for national security via this application.

Now go to section 6.

6 Declaration

If you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2010.

A relevant person should make the declaration (see guidance notes on part F1). An agent acting on behalf of an applicant is NOT a relevant person.

Each individual (or individual trustee) who is applying for their name to appear on the permit must complete this declaration. You will have to print a separate copy of this page for each additional individual to complete.

If you are transferring all or part of your permit, both you and the person receiving the permit must make the declaration. You must fill in the declaration directly below; the person receiving the permit must fill in the declaration under the heading 'For transfers only'.

6 Declaration, continued

Note: If you are unable to trace one or more of the current permit holders please see below under the transfers declaration.

I declare that the information in this application is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

I confirm that my standard facility will fully meet the rules that I have applied for (this only applies if the application includes standard facilities)

☐

Tick this box to confirm that you understand and agree with the declaration above, then fill in the details below

☐

Tick this box if you do not want us to use information from any ecological survey that you have supplied with your application (for further information please see the guidance notes on part F1)

☐

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

on behalf of (if relevant; for example, a company or organisation and so on)

Position (if relevant; for example, in a company or organisation and so on)

Today's date (DD/MM/YYYY)

For transfers only – declaration for person receiving the permit

A relevant person should make the declaration (see guidance notes on part F1).

I declare that the information in this application to transfer an environmental permit to me is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

Note: If you cannot trace a person or persons holding the permit you may be able to transfer the permit without their declaration as above. Please contact us to discuss this and supply evidence in your application to confirm you are unable to trace one or all of the permit holders.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

Tick this box to confirm that you understand and agree with the declaration above

☐

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

on behalf of (if relevant; for example, a company or organisation and so on)

Position (if relevant; for example, in a company or organisation and so on)

Today's date (DD/MM/YYYY)

Now go to section 7

7 Application checklist (you must fill in this section)

If your application is not complete we will return it to you. If you aren't sure about what you need to send, speak to us before you submit your application.

You must do the following:

Complete legibly all parts of this form that are relevant to you and your activities

☐

Identify relevant supporting information in the form and send it with the application

☐

☐

1

☐☐☐[illegible]

8 How to contact us

Website: www.environment-agency.gov.uk

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

9 Where to send your application (for how many copies to send see the guidance note on part F1)

Please send your filled in application form to:

Permitting Support Centre
Quadrant 2
99 Parkway Avenue
Parkway Business Park
Sheffield
S9 4WF

Do you want all information to be sent to you by email?

Please tick this box if you wish to have all communication about this application sent via email (we will use the details provided in Part A) ☐

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please ☐

No thank you ☐



For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐

Amount received

£

4 SUPPORTING INFORMATION (FORM C2: GENERAL – VARYING A BESPOKE PERMIT)

4.1 Changes or Additions to Existing Activities

4.1.1 MGT is submitting applications to vary the 2010 Consent and the Environmental Permit to allow for a number of proposed changes to the Development. These proposed changes comprise:

- An update due to the implementation of the IED;
- The potential to use wood pellets (as well as wood chip) as fuel;
- An extension to the Installation boundary;
- Operation of a wood chip dryer within the Installation boundary; and,
- The agreement of a process to deal with any change to the layout and dimensions of the buildings within the site boundary as the detailed design of the Development is progressed.

Industrial Emissions Directive

4.1.2 The requirements of the IED are given force in England through the Environmental Permitting (England and Wales) Regulations 2010 (as amended, most recently in 2015). The EA is currently undertaking a review of all Environmental Permits that regulate operation of large combustion plants in order to ensure compliance with the IED by January 2016.

4.1.3 The IED makes special provisions introducing new ELVs, as specified in Annex V. The EA has recognised that, as the Development has not commenced operation, the emissions limit values set out in Part 2 of Annex V will apply to the Development, as per Article 30(2) of the IED.

4.1.4 The emissions limits as currently set in 'Table S4.1: Point Source Emissions to Air – Emissions Limits and Monitoring Requirements' of the Permit have therefore (as per the discussions in Section 1.2) been compared to:

- Part 2 of Annex V of the IED;
- The Wish List; and,
- The existing LCP BREF.

4.1.5 This comparison is presented in Table 4.1. Where the currently permitted ELVs are compliant with the various legislation and guidance (and therefore no changes are required), these limits are shaded green.

TABLE 4.1: COMPARISON OF EMISSIONS LIMIT VALUES (mg/Nm³)

Parameter	Permit EPR/TP3538GF	Wish List	IED (Annex V, Part 2)	LCP BREF (July 2006)
Particulate Matter	20	5 – 15 ⁽¹⁾	20	5 – 20
Oxides of Nitrogen	150	50 – 150	150	50 – 150
Sulphur Dioxide	53	50 – 150 ⁽²⁾	150	50 – 200
Hydrogen Chloride	20	-	-	<25 ⁽³⁾
Carbon Monoxide	100	-	-	50 – 250 ⁽⁴⁾
Ammonia	5	-	-	5
Metals	TBC ⁽⁵⁾	-	-	-(⁶)

(1) Fabric filters (BAT) can achieve 10 mg/Nm³

(2) Fuel blending (BAT) can be used to reduce emissions from high-sulphur fuel (e.g. agri-biomass)

(3) Using straw as fuel may result in emissions of 50 – 300 mg/Nm³ (typical 100 mg/Nm³)

(4) Emissions from FBC boilers are typically in the lower part of the interval

(5) Following completion of Improvement Condition IP2

(6) Fabric filters (BAT) to reduce emissions of heavy metals from flue gases

4.1.6 As per Table 4.1, the currently permitted ELVs accord with the IED (where such emissions are considered). It is important to note, however, that Annex V prescribes absolute maximum values and that the IED states that BAT conclusions (as detailed in the LCP BREF) are to be used as the reference point for setting Environmental Permit conditions, which may be lower than those presented in Annex V.

4.1.7 The currently permitted ELVs are in accordance with the existing LCP BREF.

4.1.8 As discussed in Section 1.2, it is understood that the current position of the EA is that, until publication of the revised LCP BREF, the reference point to be used for BAT (and BAT-associated emissions limits (AEL)), in England, is the Wish List.

4.1.9 The ELVs prescribed in the Wish List, as relevant to the anticipated emissions from the Development, are only exceeded by the emissions of particulate matter currently allowed by the Permit.

4.1.10 The Development will implement fabric filters (and heavy duty cyclones) for the purposes of particulate emissions control, in accordance with the Section 5.1.2 of the Wish List. The reduction of the BAT AEL is considered to reflect potential improvements in the efficacy of such systems, therefore it is proposed within this application for a variation that the ELV for particulate matter be reduced, without requiring any changes to the proposed abatement measures.

4.1.11 As per Note (1) of Table 4.1, the Wish List states:

"Fabric filters achieve an efficiency of >99.9% [...] giving dust emissions of <10 mg/Nm³."

4.1.12 It is, therefore, proposed that long term average ELV for particulate matter in the Permit be varied to 10 mg/Nm³. The maximum permitted result from spot measurements (which may record fluctuations around this average) are proposed at the upper bound of the range for particulate matter emissions provided in the Wish List (15 mg/Nm³).

4.1.13 It is noted that the currently permitted ELV for NO_x is at the upper bound of, though still within, the BAT AEL range considered by the Wish List. The 'hourly average' reference period used for NO_x ensures that this is an absolute maximum; longer term averages are likely to be lower and thus closer to the lower bound. No changes are therefore proposed for the ELVs for NO_x.

4.1.14 The currently permitted ELV for SO₂ is at the lower bound of the relevant BAT AEL range. The use of wood pellets (which have a typical sulphur content that is lower than for wood chip) will not impact on the achievement of this ELV.

TEES RENEWABLE ENERGY PLANT
APPLICATION TO VARY THE ENVIRONMENTAL PERMIT

- 4.1.15 It is, therefore, proposed that the ELV of 53 mg/Nm³ (calendar monthly mean) for SO₂ is retained.
- 4.1.16 The maximum permitted result from spot measurements (which may record fluctuations around this average) are proposed at the ELV considered in the Application (106 mg/Nm³) and thus the envelope of previous air dispersion modelling studies of the Development. This provides an effective maximum emissions concentration for SO₂ that is in accordance with the “97% of validated 24 hour mean values / year do not exceed 200% of the [calendar monthly mean ELV]” condition currently set in the Permit, together with the BAT AEL range of the Wish List.
- 4.1.17 The Wish List does not consider the remaining substances controlled by the Permit. Given that the ELVs for these substances are in accordance with the existing LCP BREF and that the Development will utilise fabric filters (BAT) as part of the pollution abatement systems, no changes are proposed to these ELVs at this stage.

Potential to Use Wood Pellets

- 4.1.18 The Application was prepared on the basis that the Development would be fuelled by wood chips. This was the main biomass fuel that was available at the time.
- 4.1.19 Since the granting of the Permit, the biomass fuel market has developed and increased the variety of biomass fuels that are currently available. As a result, the design of the Development has progressed and the preferred CFB boiler has the ability to mix fuels and the flexibility to be fuelled on a range of blended biomass fuels. It is now intended that the Development will be fuelled by wood chips and wood pellets. This allows for increased flexibility and diversity in the use of biomass fuels.
- 4.1.20 The use of wood pellets will result in changes in terms of storage and conveyance around the site. The design work on these activities is still on-going and so it is proposed that POC2 of the Permit can be used in order for MGT to obtain approval of the EA of the storage and conveyance solutions (at the appropriate time, and prior to commencement of operations).
- 4.1.21 In addition, in terms of the application to vary the Section 36 Consent, in their environmental scoping response DECC stated that Government policy had moved on since the granting of the 2009 Consent and the 2010 Consent, and it is now practise to include Conditions on ‘Fuel Type and Fuel Sustainability’. The proposed Conditions for the Varied Section 36 Consent are:
1. *With the exception of fuels used for the purpose of boiler start-up or combustion stabilisation, only biomass fuel feedstocks which comply with the applicable mandatory sustainability criteria may be burnt in the main boiler of the authorised Development.*
 2. *MGT must submit a Fuel Sustainability Report to the relevant planning authority specifying the sustainability of all biomass fuel feedstocks burnt in the main boiler(s) within twelve calendar months of first commercial use. The Fuel Sustainability Report will provide the same information and level of assurance / verification which MGT is required to provide in respect of the sustainability of biomass fuel feedstocks under the applicable mandatory sustainability criteria and will report if the authorised Development has been claiming financial support on a month by month basis. Thereafter a further Fuel Sustainability Report must be submitted to the relevant planning authority at the end of each 12 month period from the date of the submission of the first submitted Fuel Sustainability Report throughout the operational life of the authorised Development.*
- 4.1.22 The typical fuels proposed for the Development (for the CFB Boiler) are:
- Virgin wood chip (currently permitted); and
 - Wood pellets.
- 4.1.23 Table 4.2 presents the anticipated specification of each of the above fuels.

TABLE 4.2: TYPICAL PROPOSED BIOMASS SPECIFICATIONS

Component	Typical Weight (% , as received)	
	Wood Chip	Wood Pellets
Moisture	35.0	10.0
Ash	2.0	0.9
Sulphur	0.1	0.1
Chlorine	0.0	0.1
Carbon	32.8	46.4
Hydrogen	3.6	5.0
Nitrogen	0.2	0.3
Oxygen	26.4	37.4
LHV (MJ/kg)	11.3	17

- 4.1.24 Gas oil (with a sulphur content of <1% w/w) is currently permitted for use within the Development for start-up and shutdown of the Development and for use in the auxiliary boiler and emergency generator.

4.2 Environmental Risk Assessment

- 4.2.1 As discussed, in Section 4.1, the proposed changes to the Permit will result in a reduction in the ELV for particulate matter that will be present within the flue gases emitted by the Development.
- 4.2.2 Where changes to the ELVs for other substances are proposed, these are for regulatory compliance and amended with due regard to the relevant averaging periods in the IED, Wish List and existing LCP BREF (as appropriate). These changes will not result in the increase of emissions from the Development; further detailed analysis is presented in Section 5.2.
- 4.2.3 There are no specific changes to the nature of the abatement techniques for the specific substances controlled by the Permit proposed as part of this application to vary the Permit.
- 4.2.4 As such, it is considered that the Environmental Risk Assessment (ERA) presented in the Application (at Section B8) remains valid.
- 4.2.5 However, this variation also seeks to include the operation of the wood-chip dryer as a DAA of the combustion process, that has not been subject to an ERA. This Section considers the potential environmental risks associated with the dryer and presents the measures that are proposed for the control of such risks.

Wood Chip Dryer

- 4.2.6 The wood chip dryer will be designed to receive and dry a minimum of 50,000 tonnes per annum of wet wood chips (based on an anticipated 8,000 operating hours per annum). The dryer will be capable of accepting fuel with a moisture content of up to 60% (w/w) and reducing this down to 20% (w/w).
- 4.2.7 Air saturated with water vapour will exit the wood chip dryer, via an appropriate filter system (for the control of particulate matter), to the dryer exhausts (at a height of c.10 m).

H1 Assessment of Directly Associated Activity

- 4.2.8 An assessment of the potential environmental risks associated with the operation of the wood chip dryer has been undertaken in accordance with the procedure set out in the 'Horizontal Guidance Note H1 – Overview Document' (EA, December 2011).

TEES RENEWABLE ENERGY PLANT
APPLICATION TO VARY THE ENVIRONMENTAL PERMIT

- 4.2.9 Section 2.1 of the H1 Guidance outlines the key aspects that require assessment as part of such an assessment.
- 4.2.10 Operation of the wood chip dryer is considered to represent the following potential environmental risks:
- Noise and vibration:
The wood chip dryer will represent an additional on-site noise source;
 - Accidents:
The wood chip dryer has the potential to represent a fire hazard;
 - Controlled releases to air:
The hot air, saturated with steam, may contain dust from the processed wood chips that will be released, via a suitable filter system, from dedicated exhausts; and
 - Site waste:
Spent filters will require replacement from time to time.

Noise and Vibration

- 4.2.11 The conditions of the 2010 Consent are such that the Development must operate within the 'environmental envelope' defined by the Environmental Statement (ES) (and subsequent further / addendum information). The rated sound pressure levels experienced at off-site receptors will therefore be required to be no more than those predicted in the noise and vibration studies presented in the ES.
- 4.2.12 As such, whilst the wood chip dryer will represent a noise source additional MGT is required to design the Development with regard to these environmental limits.
- 4.2.13 The detailed design of the wood chip dryer (and, indeed the Development as a whole) has not yet been completed therefore specific noise treatments are not currently known.
- 4.2.14 The wood chip dryer will be housed within a dedicated enclosed structure such that the external walls of this structure will, as necessary, be designed with noise attenuation characteristics suitable for the reduction of any noise generated within.
- 4.2.15 The exhaust fans will be outside of the enclosed structure and therefore alternative means of noise control may prove to be necessary. It is anticipated that low-noise radial fans will be implemented in the exhausts.
- 4.2.16 It is therefore considered that, as the rated sound pressure level during operation of the Development is not permitted to exceed the levels predicted by the ES, the Development will (and can) be designed to include suitable noise abatement measures to allow for the inclusion of the wood chip dryer and that the overall environmental risk is low.

Accidents

- 4.2.17 There is the potential, without suitable mitigation for a fire to start and / or develop within the wood chip dryer. However, for belt-type dryers (as proposed for the Development), it is considered that the overall risk will be low.
- 4.2.18 The drying temperature within the system will be maintained at less than 90°C which is substantially less than the anticipated auto-ignition temperatures of wood chippings (>200°C). The dryer will be equipped with appropriate temperature sensors (or other fire detection methods) together with a water spray system.
- 4.2.19 Suitable containment / attenuation systems will be implemented in order to prevent the uncontrolled off-site release of any spent fire water.
- 4.2.20 The overall risk in respect of fire within / from the wood chip dryer is considered to be low.

Controlled Releases to Air

- 4.2.21 The wood chip dryer will emit moist air from the drying chamber that will contain dust from the wood chip that will become entrained in the air flow.
- 4.2.22 The anticipated concentration of particulate matter, following filtration (using fabric filters, or equivalent), will be $<10 \text{ mg/m}^3$. Based on this concentration, the mass flowrate of dust in the exhaust air from the wood chip dryer is expected to be $<0.4 \text{ g/s}$. The environmental impact of such a release is considered to be insignificant.
- 4.2.23 The exhaust and filtration systems will be regularly monitored in order to ensure their integrity and that they are operating effectively. If issues are identified, the wood chip dryer will be shut down in order to prevent uncontrolled releases to air. Appropriate maintenance will be undertaken, in accordance with guidance provided by the manufacturer / supplier of the system, prior to the recommencement of operation of the dryer.
- 4.2.24 The overall risk in respect of emissions to air from the wood chip dryer is considered to be low.

Site Waste

- 4.2.25 During operation of the wood chip dryer, it will be necessary to intermittently replace elements of the filtration systems (particularly spent filter media). This will add to the total amount of waste produced within the boundary of the Development.
- 4.2.26 The anticipated fabric filter material will contain dust removed from the exhaust air prior to release. The dust will be of exactly the same composition as the dried wood chip and this, together with the filter medium, will be non-hazardous.
- 4.2.27 It may be possible for the retained wood chip dust to be mixed with in the fuel storage area prior to its use as feed to the CFB boiler.
- 4.2.28 Given that the waste is non-hazardous and that there is potential to re-use the wood chip dust, the overall risk in respect of site waste is considered to be low.

5 SUPPORTING INFORMATION (FORM C3: VARYING A BESPOKE INSTALLATION PERMIT)

5.1 What Activities are you Applying to Vary?

- 5.1.1 As discussed in Section 4.1, the proposed variations to the Permit are limited to the amendments of emissions limit values in order to ensure that the Schedule 1 activity Development operates in accordance with the IED.
- 5.1.2 No variations to the nature of the Schedule 1 activity (or the proposed emissions abatement techniques) are sought.
- 5.1.3 The DAAs, as currently specified in the Permit, will be retained, with the addition of the operation of the wood chip dryer.
- 5.1.4 However, the descriptions of two of the currently permitted DAAs specified in Table S1.1 of the Permit refer, specifically, to wood chip. As discussed, it is proposed that the range of fuels that could be used by the Development will not be limited to wood chip therefore a change in the wording of this is proposed.
- 5.1.5 Table 5.1 presents the proposed replacement for the current Table S1.1, with amendments highlighted in red.

TABLE 5.1: PROPOSED NEW TABLE S1.1

Table S1.1: Activities		
Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex IIA and IIB operations	Limits of specified activity and waste types
Burning any fuel in an appliance with a rated thermal input of 50MW or more (Schedule 1 Section 1.1 Part A(1))	Circulating fluidised bed (CFB) boiler, auxiliary boiler and emergency generator	The entire combustion plant including air supply system, boiler, power plant (including CFB boiler, auxiliary boiler and emergency generator), facilities for the treatment of the exhaust gases, stacks, devices and systems for controlling combustion conditions. Auxiliary boiler from loading of gas oil to boiler to export of steam to CFB system for up to 12 hours during plant start-up.
Directly Associated Activity		
Steam and electrical power supply	Steam turbine for the generation of up to 300MW electrical output.	Includes gas oil receipt and storage, and demineralised water plant.
Wood chip dryer	Equipment for removal of moisture from received wood chips using heat from steam extracted from the steam turbine	Includes the point of steam extraction and connecting supply pipework to the dryer. Transfer of wood chips between 'wet' wood chip storage area and 'dry' wood chip storage area.
Firewater pump	Pumping of firewater in the event of an emergency.	Operation of firewater pump for regular testing of firewater system and for pumping of firewater in the event of an emergency.
Storage and movement of ash	Storage of ash within designated hoppers.	From transfer of ash from CFB boiler to discharge into road container for transport off-site.
Water demineralisation plant	Demineralisation of water supply to boiler for steam production.	From receipt of water from mains supply to discharge of water to boiler plant.
Fuel storage and movement	Storage of biomass fuel and loading to CFB boiler.	Storage of biomass fuel within dedicated buildings, loading of biomass fuel on to conveyor and transfer by conveyor to silos which feed the CFB boiler.
Gas oil storage and handling	Storage of gas oil within dedicated bulk storage tank.	Off-loading of gas oil from road tanker to dedicated storage tank and transfer by pipe to combustion plant.
Fuel unloading and transfer	Movement of biomass fuel from deep water quay to site	Loading biomass fuel into hoppers at quay and movement of biomass fuel by a series of conveyors and hoppers to the biomass fuel storage buildings on site.

5.2 Emissions to Air, Water and Land

Emissions to Air

- 5.2.1 The Application (in Table 4) presents the originally anticipated maximum emissions of a range of prescribed or relevant substances based on the maximum emissions concentrations anticipated at the time of making the Application.
- 5.2.2 As discussed, in Section 4.1, the proposed changes to the Permit will result in a reduction in the ELV for particulate matter that will be present within the flue gases emitted by the Development.
- 5.2.3 Where changes to the ELVs for other substances are proposed, these are for regulatory compliance and amended with due regard to the relevant averaging periods in the IED, Wish List and existing LCP BREF (as appropriate). These changes will not result in the increase of emissions from the Development.
- 5.2.4 Table 5.2 presents the proposed replacement for Table S4.1.
- 5.2.5 Based on the proposed changes to the ELVs for the Development, a comparison of the mass emissions anticipated under the terms of the Permit and those following the proposed variation are shown in Table 5.3.

TABLE 5.2: PROPOSED NEW EMISSIONS LIMIT VALUES

Table S4.1: Point Source Emissions to Air – Emission Limits and Monitoring Requirements						
Emission Point Reference and Location	Source	Parameter	Limit (mg/Nm³)^(a)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
A1, Position as indicated on dwg Figure 2 Summary of release points in application	Circulating fluidised bed boiler	Particulate Matter	10	Daily average of hourly averages	Continuous	EN14181
				Calendar monthly mean		
			15	Average over monitoring period	Annual spot monitoring	BS EN13284-1
		Oxides of nitrogen (NO _x)	150	Hourly average	Continuous	EN14181
				Calendar monthly mean		
				Average over monitoring period	Annual spot monitoring	BS EN14792
		Sulphur dioxide (SO ₂)	53	Calendar monthly mean	Continuous	EN14181
			106	97% of validated 24-hour mean values per year		
				Average over monitoring period	Annual spot monitoring	BS EN14791
		Hydrogen chloride (HCl)	20	Daily average of hourly averages	Continuous	EN14181
				Average over monitoring period	Annual spot monitoring	BS EN1911
		Carbon monoxide (CO)	100	Daily average of hourly averages	Continuous	EN14181
			50	Calendar monthly mean		
			100	Average over monitoring period	Annual spot monitoring	BS EN15058
		Ammonia (NH ₃)	5	Average over monitoring period	Annual spot monitoring	EN14181
		Metals	Note 1	Note 1	Note 1	Note 1

(a) These limits do not apply during start-up or shutdown

Note 1: To be confirmed in writing with the Environment Agency following completion of IP2, Table S1.3

TABLE 5.3: ANTICIPATED MAXIMUM EMISSIONS

<i>Parameter</i>	<i>Emission Limit Value (Max / Average) (mg/Nm³)</i>	<i>Mass Flowrate (kg/hour)</i>	<i>Annual Mass Emissions (tonnes)</i>	<i>Annual Mass Emissions (Currently Permitted) (tonnes)</i>
Oxides of nitrogen (NO _x)	150 / 150	174.6	1415	1415
Carbon monoxide	100 / 50	116.3	472	943
Carbon dioxide	287 952*	335 274	2 937 000	..**
Sulphur dioxide	106 / 53	123.8	502	502
Particulate Matter	15 / 10	17.3	94	187
Hydrogen chloride	20	22.0	180	180

* Average only

** Not prescribed however there no change is anticipated

Emissions to Water

- 5.2.6 There are no proposed changes to water source, treatment, usage or disposal.

Emissions to Land

- 5.2.7 Whilst the Development will not result in any direct discharge to land, it is anticipated that approximately 75,000 tonnes of ash per annum will result from the combustion of the biomass fuel.
- 5.2.8 This figure is not expected to change as a result of increasing the range of fuels from the wood chip-only scenario proposed in the Application.
- 5.2.9 However, it is noted that the permitted waste types (as per Table S3.2 of the Permit) require an update to reflect the waste code definitions provided by the European List of Wastes. As such, Table 5.4 should replace Table S3.2 in the Permit.

TABLE 5.4: PROPOSED NEW TABLE S3.2

Table S3.2: Permitted Waste Types and Quantities for Storage and Transfer of Combustion Waste for Off-site Disposal	
Maximum Quantity	75 000 Te/year
Waste Code	
10 01 03	Fly-ash from peat and untreated wood
10 01 15	Bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 01	Bottom ash, slag and boiler dust
10 01 24	Sand from fluidised beds

- 5.2.10 It is considered that the updated definitions are applicable to the ash generated by all biomass fuel proposed for the Development and demonstrate that all such ash will be non-hazardous. The intention is to sell the ash for use in the cement, aggregates and fertilizer industries or, where this not possible, it will be removed from site and disposed by a suitably licensed contractor at an appropriate landfill site

5.3 Types and Amounts of Raw Materials

- 5.3.1 Since the granting of the Permit, the biomass fuel market has developed and increased the variety of biomass fuels that are currently available. As a result, the design of the Development has progressed and the preferred CFB boiler has the ability to mix fuels and the flexibility to be fuelled on a range of blended biomass fuels. It is now intended that the Development will be fuelled by wood chips and wood pellets. This allows for increased flexibility and diversity in the use of biomass fuels.
- 5.3.2 Table 3 of the Application provides details of the anticipated on-site storage requirements of various raw materials that will be required during operation of the Development. As per Section 4.1, the term "wood chip" (as used in Table 3 of the Application) requires amendment based on the proposed changes, though the total solid fuel storage capacity will not increase as a result of including wood pellets within the range of permitted fuels, as shown in Table 5.5.

TABLE 5.5: INVENTORY OF RAW MATERIALS

Material	Purpose	Quantity	Fate
Biomass fuel	Combustion	120 000 tonnes	Combusted in CFB Boiler
DFO / biodiesel / vegetable oil	Start-up fuel	100 m ³	Combusted in boiler, stand-by generator and auxiliary boiler
Ammonia	SNCR injection	150 tonnes	Reacts in CFB boiler
Demineralised water	Source of boiler water make-up	700 m ³	Discharged as boiler blowdown with subsequent reuse where possible
Lubricating oil	Lubrication and hydraulic control	20 tonnes	Returned to manufacturer
Transformer oil	Cooling	20 tonnes	Returned to manufacturer
Dosing Chemicals			
Carbohydrazide	Boiler / feedwater chemical control	<1 tonne	Discharged in blowdown either for reuse or to process water holding tank
Ammonia		<1 tonne	
Trisodium phosphate		<1 tonne	

5.4 Environmental Impact Assessment

- 5.4.1 In July 2008, an Environmental Statement (ES) was submitted to DECC as part of an application for consent to construct and operate the Development under Section 36 of the Electricity Act 1989. This ES was submitted as Appendix G to the Application.
- 5.4.2 An addendum to the ES was submitted to DECC, in January 2010, based on revisions to the physical dimensions of the Development as work progressed on its design. This addendum, together with the subsequent consent, from DECC, are included as Appendix A and Appendix B to this document, respectively.
- 5.4.3 As discussed, in Section 4.1, the proposed changes to the Permit will result in a reduction in the ELV for particulate matter that will be present within the flue gases emitted by the Development.
- 5.4.4 Where changes to the ELVs for other substances are proposed, these are for regulatory compliance and amended with due regard to the relevant averaging periods in the IED, Wish List and existing LCP BREF (as appropriate). These changes will not result in the increase of emissions from the Development.
- 5.4.5 The overall impact of this is explicitly demonstrated in Tables 5.2 and 5.3.
- 5.4.6 It is therefore considered that the Development will operate within the 'environmental envelope' defined by the scope of the ES and the subsequent addendum.
- 5.4.7 It is noted that changes to the fuel type may result in changes to the physical characteristics of the flue gases (e.g. temperature, volume etc.) however these are not likely to be significant. Further discussion regarding the proposed fuels for the Development is provided in Section 5.5.

5.5 Appendix 1 – Identify the Type of Fuel burned in your Combustion Units

- 5.5.1 As discussed in Section 5.3, it is now intended that the Development will be fuelled by a wood chips and wood pellets.
- 5.5.2 The Application, at Questions 1 and 2 of Form EPB (Appendix 2), provide the anticipated 'design' specifications for wood chip and gas oil. Such a specification for the proposed wood pellet fuel is presented in Table 5.6.

TABLE 5.6: TYPICAL PROPOSED 'NON-WOOD CHIP' BIOMASS FUELS

Parameter	Unit	Wood Pellets
Maximum Gross Thermal Input	% MWth	100
Moisture	%	10.0
Ash	%w/w, dry	0.9
Sulphur	%w/w, dry	0.1
Chlorine	%w/w, dry	0.1
Carbon	%w/w, dry	46.4
Hydrogen	%w/w, dry	5.0
Nitrogen	%w/w, dry	0.3
Oxygen	%w/w, dry	37.4
LHV *	MJ/kg	17

* As received

5.6 Appendix 1 – Monitoring Requirements of Chapter III of the Industrial Emissions Directive

5.6.1 The Development will fully accord with the monitoring requirements of Part 3 of Annex V of the IED which are:

- The concentrations of the following substances in the flue gases from the CFB Boiler will be monitored continuously:
 - SO₂;
 - NO_x; and,
 - Particulate matter (dust)

In addition, and as per the Permit (which reflect the proposals contained in LCP D1 and LCP D2), continuous measurements will also be made of the concentrations of:

- HCl;
- CO; and,
- NH₃.
- The continuous measurements referred to above will be complimented by the continuous measurement of the following flue gas parameters:
 - Oxygen content;
 - Temperature;
 - Pressure; and,
 - Water vapour.

This data will be used in order to correct all as-measured emissions concentrations to standard reference conditions of: 273.15 K, 101.3 kPa, dry, 6% oxygen.

5.6.2 As per Part 3 of Annex V (Point 8):

"Sampling and analysis of relevant polluting substances and measurements of process parameters as well as the quality assurance of automated measuring systems and the reference measurement methods to calibrate those systems shall be carried out in accordance with CEN standards. If CEN standards are not available, ISO, national or other international standards which ensure the provision of data of an equivalent scientific quality shall apply."

- 5.6.3 All monitoring of the emissions to air from the Development will be undertaken in full accordance with:
- Technical Guidance Note (Monitoring) M1 – Sampling Requirements for Stack Emission Monitoring;
 - Technical Guidance Note (Monitoring) M2 – Monitoring of Stack Emissions to Air;
 - EU IPPC Reference Document on the General Principles of Monitoring; and,
 - 'Electricity Supply Industry – IED Compliance Protocol for Utility Boilers and Gas Turbines' (Joint Emissions Programme, February 2015).
- 5.6.4 Wherever possible, all monitoring (including equipment, procedures and personnel) will be certified to the standards set by the EA MCertS scheme. Where such certification is not possible, other international or national standards will be used with details to be provided, in advance, to the EA.

6 SUPPORTING INFORMATION (FORM F1: OPRA, CHARGES AND DECLARATIONS)

Operational Risk Appraisal (Opra) for Installations under EPR



Organisation Name	MGT Teesside Limited
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Case Number	TP3538GF
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Version	3.9
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Opra Scheme Version 3.9

Full instructions for the use of this spreadsheet are contained in the accompanying documentation.
It is recommended that the user fills in the spreadsheet following the order of worksheets listed below (click on the appropriate tab at the bottom of the screen).
Not all worksheets require input, for those that do, the fields that may require input have no background colour.
The sequence of worksheets is divided into two sections Sheets 1 to 11 are concerned with the input of data. Sheet 12 is the summary for the Opra Scores and Sheet 13 displays the charges.
If you cannot see the whole of this box or it is very small, please click 'View' and adjust 'Zoom' level.

1 Listed Activities

Please refer to the Opra Scheme for Installations for the look-up tables and guidance.
Use abbreviated descriptions, select the Schedule 1 references and bands from the pick lists provided.

2 Other Activities

Please enter Part A(2), Part B and aggregated activities onto this sheet.

3 Complexities

Summary of complexities and rules applied

4 Emissions to Air

5 Emissions to Water

6 Emissions to Land

7 Emissions to Sewer

8 Emissions to Waste

9 Emissions Summary

No input is required. Output screen only. Summary of emissions.

10 Location

11 Operational Management

12 Opra Summary

No input is required. Output screen only. The emissions are shown separately.

13 Calculation

No input is required. Charges with separate emissions totals. It is possible to clear the scores and recalculate the charges to include any amendments.

For EA Use

For queries about the scheme or the operation of the spreadsheet, please contact the Environment Agency by email: opra@environment-agency.gov.uk
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☐ Consolidated Permit

Listed Activities - Complexity Attribute

Organisation:	MGT Teesside Limited
Case Number:	TP3538GF

	Description of Activity	Schedule 1 Reference	Regulatory Complexity
1	Combustion Process of 300 MWth or greater	1.1 A(1) a) (ii)	D
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

Totals before any rules are applied	
A	0
B	0
C	0
D	1
E	0

If there is insufficient space
please attach a paper record

If Rule 4 applies - please complete Other Activities sheet

Aggregation and Schedule1 Part A(2) and Part B Activities

Organisation Name:	MGT Teesside Limited	If there is insufficient space please attach a paper record
Case Number:	TP3538GF	

Schedule 1 Part A(1) - Rule 4 Aggregation Details

	Aggregation Group	Description	Schedule 1 Ref	Complexity
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

Rule 4	Not Applied
--------	-------------

List of Schedule 1 Part (A) 2 and Part B Activities included in the Installation

	Enter description of Activity	Schedule 1 Reference
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

EPR- Installations Charging Scheme Complexity - Application of Rules

Company	MGT Teesside Limited
Permit	TP3538GF

	Description / Aggregation Group	Schedule 1 Ref	Complexity	Rule 3 Capping	Rule 5 not applied	Rule 6 not applied	Rule 7 Not Applied
1	Combustion Process of 300 MWth or greater	1.1 A(1) a) (ii)	D	D	D	D	D
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Summary of Rules Applied	
Rule 3	No
Rule 4	No
Rule 5	No
Rule 6	No
Rule 7	No

These totals will be carried forward and used to calculate the Opra Risk Summary and Calculation of Charges

Scores after Rules applied (Used for calculation of Charges)			
Complexity	First 6 Complexities	Remaining complexities	Total
A	0	0	0
B	0	0	0
C	0	0	0
D	1	0	1
E	0	0	0
Capped	0	0	0

Scores before rules applied (Used for summary of Risk)
0
0
0
1
0

Emissions Attribute - Releases to Air

Organisation Name:	MGT Teesside Limited
Case Number:	TP3538GF

Please check that the data is entered in the correct units.
The Emission Index will only show if the data entered exceeds the threshold.

Please tick box if this sheet is applicable ☒

Substance	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes
Oxides of Sulphur	Tonnes Year	10	540	54	
Oxides of Nitrogen	Tonnes Year	10	1528	153	
Carbon Monoxide	Tonnes Year	1000	1019	1	
Hydrogen Chloride	Kg year	1000	203723	204	
Ammonia	Kg year	100	50931	509	
Particulates	Kg year	100	203723	2037	

Emissions Attribute - Releases to Water

Organisation Name:	MGT Teesside Limited	Please check that the data is entered in the correct units.
Case Number:	TP3538GF	The Emission Index will only show if the data entered exceeds the threshold.

Please tick box if this
sheet is applicable

☐

Substance	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes

Emissions Attribute Releases to Land

Organisation Name: GT Teesside Limited
Case Number: TP3538GF

Please check that the data is entered in the correct units.
 The Emission Index will only show if the data entered exceeds the threshold.

Please tick box if this
 sheet is applicable ☐

Substance/Landfill Type	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes
Inert waste	Tonnes year	1000		0	
Non hazardous waste (non biodegradable)	Tonnes year	350		0	
Hazardous waste	Tonnes year	100		0	
Non hazardous waste (biodegradable)	Tonnes year	100		0	
			Total	0	

Emissions Attribute - Off-site Disposals to Sewer

Orgasination Name:	MGT Teesside Limited	Please check that the data is entered in the correct units. The Emission Index will only show if the data entered exceeds the threshold.
Case number:	TP3538GF	

Please tick box if this
sheet is applicable

☐

Substance	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes
-----------	-------	-----------------------	---------------------	-------------------	-------

Emissions Attribute - Off-site Disposals of Waste

Organisation Name: GT Teesside Limited
Case Number: TP3538GF

Please check that the data is entered in the correct units.
 The Emission Index will only show if the data entered exceeds the threshold.

Substance	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes
Inert waste	Tonnes year	1000		0	
Non hazardous waste (non biodegradable)	Tonnes year	350		0	
Hazardous waste	Tonnes year	100		0	
Non hazardous waste (biodegradable)	Tonnes year	100		0	
		Total		0	(Weighting factor = 0.33)
		Weighting Factor			
		Weighted Total		0	

Emissions Attribute - Off-site Recovery, Recycling, Re-use of Waste

Company GT Teesside Limited
Permit TP3538GF

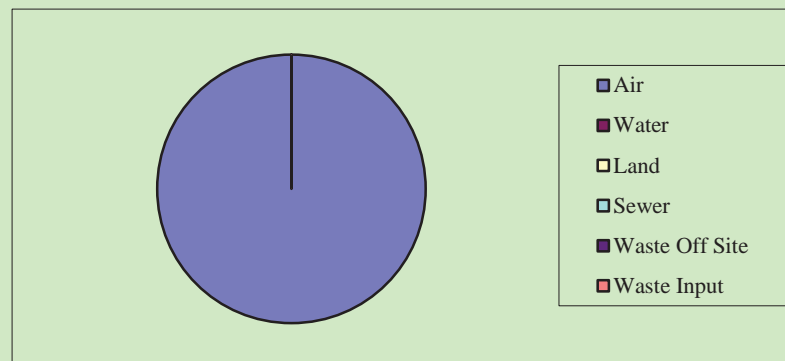
Please check that the data is entered in the correct units.
 The Emission Index will only show if the data entered exceeds the threshold.

Substance	Units	Emission Threshold	Maximum Quantity	Emission Index	Notes
Inert waste	Tonnes year	1000		0	
Non hazardous waste (non biodegradable)	Tonnes year	350		0	
Hazardous waste	Tonnes year	100		0	
Non hazardous waste (biodegradable)	Tonnes year	100		0	
		Total		0	(Weighting factor = 0.1)
		Weighting Factor			
		Weighted Total		0	
Off-Site Total				0	

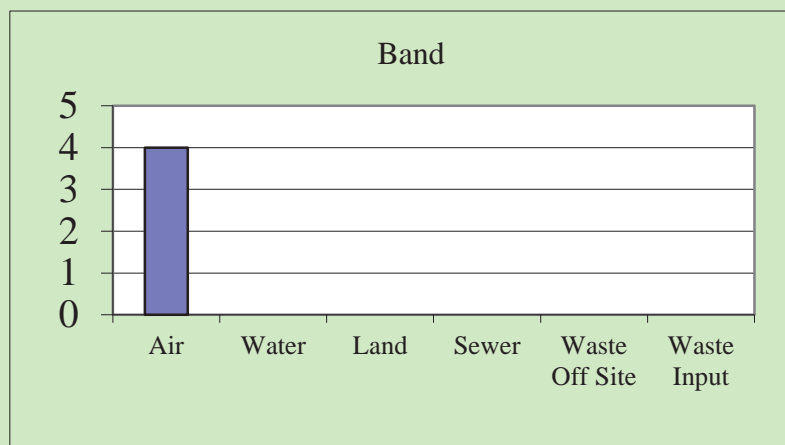
Emissions Attribute Summary Sheet

Organisation:	MGT Teesside Limited
Case Number:	TP3538GF

Pathway	Overall Emission Index
Air	2958
Water	0
Land	0
Sewer	0
Waste Off Site	0
Waste Input	0



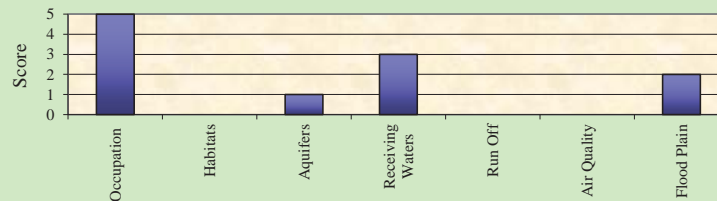
Pathway	Band	
Air	4	D
Water	0	-
Land	0	-
Sewer	0	-
Waste Off Site	0	-
Waste Input	0	-



Location Attribute

Organisation Name:	MGT Teesside Limited		
Case Number:	TP3538GF		
Parameter	Yes/No	Available	Score
Human Occupation/Presence:			
a) if within 50m of the boundary	<input type="text" value="Yes"/>	5	5
or:			
b) if greater than 50m but less than 250m of boundary	<input type="text" value="Yes"/>	3	
or:			
c) if greater than 250m but less than 1km of boundary	<input type="text" value="Yes"/>	1	
Statutory sites designated under Habitats Directive or CROW Act 2000:			
a) if "relevant" under Habitats Directive	<input type="text" value="No"/>	3	0
or			
b) if CROW Act 2000 assessment required	<input type="text" value="No"/>	2	
a) if on an aquifer and within a Groundwater Protection Zone	<input type="text" value="No"/>	2	1
or			
b) if on an aquifer and not within a Groundwater Protection Zone	<input type="text" value="Yes"/>	1	
Sensitivity of receiving waters (information available from Agency's "What's in your backyard" webpages), if:			
a) grade 5	<input type="text" value="No"/>	1	3
b) river category grade 4 or 3	<input type="text" value="No"/>	2	
c) river category grade 2 or 1 or estuarine	<input type="text" value="Yes"/>	3	
a) If there is direct runoff from the site without interceptors or other active control measures	<input type="text" value="No"/>	2	0
or			
b) If as above but there are interceptors or active control measures	<input type="text" value="No"/>	1	
a) If within an Air Quality Management Zone (AQMZ) and emit pollutant that has been declared for that AQMZ	<input type="text" value="No"/>	3	0
or			
b) If within 2km of an Air Quality Management Zone (AQMZ) and emit pollutant that has been declared for that AQMZ	<input type="text" value="No"/>	2	
or			
c) as a) except do not emit pollutants that have be declared for the AQMZ	<input type="text" value="No"/>	1	
If within a flood plain	<input type="text" value="Yes"/>	2	2
Maximum Score = 20			Total
Band A = 0 - 4, B = 5 - 8, C = 9 - 12, D = 13 - 17 and E = 18 - 20			Band
			C

Location Attribute Profile



Operator Performance						
		Yes/No	Points available	Points scored	Post or group responsible for each requirement	Document reference (*) or date by which systems will be in place (*see para 4.4.2)
Operations and Maintenance section - 20% Effective operational and prev maintenance systems shall be employed on all aspects of the process where any failure could impact on the environment.						
1	Are there documented operating procedures for operations that may have an adverse impact on the environment?	Yes	2.0	2.0		To be implemented prior to operation
2	Is there a defined procedure for identifying, reviewing and prioritising items of plant for which a preventative maintenance regime is appropriate?	Yes	2.0	2.0		To be implemented prior to operation
3	Are there documented procedures for monitoring emissions or impacts?	Yes	2.0	2.0		To be implemented prior to operation
4	Is there a preventative maintenance programme for those items of plant whose failure could lead to impact on the environment?	Yes	1.0	1.0		To be implemented prior to operation
5	Does the preventative maintenance programme include regular checks and formal inspections of 'static' items such as tanks, pipework, retaining walls, bunds and ducts?	Yes	1.0	1.0		To be implemented prior to operation
6	Do the operations and maintenance systems include auditing environmental performance?	Yes	2.0	2.0		To be implemented prior to operation
7	Are the reports, results and recommendations arising from audits made available to senior management on a regular basis?	Yes	2.0	2.0		To be implemented prior to operation
8	In the last two years, has there been any notifiable incident or release for which lack of maintenance was a contributory cause?	No	-2.0	0.0		
9	In the last two years, has there been any notifiable incident or release for which the root cause could not be identified?	No	-3.0	0.0		
Operations and Maintenance Total			12.0	12.0	100.0%	2.0

Operator Performance

		Yes/No	Points available	Points scored	Post or group responsible for each requirement	Document reference (*) or date by which systems will be in place (*see para 4.4.2)
Competence and Training - 20%						
<p>The Operator shall ensure that all relevant management and operational staff (including contractors and those responsible for purchasing equipment and materials) receive adequate training with regard to their responsibilities under the Permit. Particular attention should be given to the following:</p> <p><input type="checkbox"/> Minimisation of all potential environmental effects from operation under normal, abnormal, start up and shut down circumstances;</p> <p><input type="checkbox"/> Prevention of accidental emissions and action to be taken when accidental emissions occur; and</p> <p><input type="checkbox"/> The need to report deviation from the permit.</p>						
1	Has a training needs assessment been carried out which: <input type="checkbox"/> Identifies all posts for which specific environmental awareness training is required; and <input type="checkbox"/> Identifies the scope and level to which such training is to be given?	Yes	3.0	3.0		To be implemented prior to operation
2	Are training systems in place for all relevant staff that cover the following factors:					
	<input type="checkbox"/> the regulatory requirements associated with the Permit as they affect their work activities and responsibilities;	Yes	2.0	2.0		To be implemented prior to operation
	<input type="checkbox"/> likely potential environmental impacts which may be caused by plant under their control. This should cover both normal and abnormal circumstances;	Yes	2.0	2.0		To be implemented prior to operation
	<input type="checkbox"/> reporting procedures to inform supervisors or managers of deviations from permit conditions;	Yes	1.0	1.0		To be implemented prior to operation
	<input type="checkbox"/> procedures to be used by supervisors or managers and for the reporting of deviations from permit conditions to the Agency; and	Yes	2.0	2.0		To be implemented prior to operation
	<input type="checkbox"/> prevention of accidental emissions and action to be taken when accidental emissions occur?	Yes	2.0	2.0		To be implemented prior to operation
3	Are the skills and competencies necessary for key posts documented and are records of training needs and training received maintained?	Yes	1.0	1.0		To be implemented prior to operation
4	Do the key posts include contractors, those responsible for liaising with contractors and those purchasing equipment and materials?	Yes	1.0	1.0		To be implemented prior to operation
5	Do you assess the potential environmental risks posed by the work of contractors and provide instructions to contractors about protecting the environment while working on site?	Yes	1.0	1.0		To be implemented prior to operation
6	In the last 2 years, have there been any notifiable incidents or releases, which it has been identified that lack of training was a contributory cause ?	No	-2.0	0.0		
7	Are there industry standards for training in this sector (e.g. WAMITAB) and if so do you apply them? (If no industry standards please leave blank)		-2.0	0.0		
8	Are individual and organisational training needs reviewed on a regular (e.g. annual) basis?	Yes	2.0	2.0		To be implemented prior to operation
Competence Training Total			17.0	17.0		

Operator Performance

		Yes/No	Points available	Points scored	Post or group responsible for each requirement	Document reference (*) or date by which systems will be in place (*see para 4.4.2)
Emergency planning - 20%						
	<p>The Operator shall maintain an accident management plan which identifies potential events or failures which might lead to an environmental impact. The plan shall identify:</p> <ul style="list-style-type: none"> <input type="checkbox"/> the likelihood of, and the actions to be taken to minimise, these potential occurrences; <input type="checkbox"/> the environmental consequences and an action plan to deal with such occurrences; <input type="checkbox"/> The Operator shall have a written procedure for handling, investigating, communicating and reporting of incidents and actual or potential non-compliance with permit conditions including taking action to mitigate any impacts caused and for initiating and completing corrective action. <input type="checkbox"/> In the case of abnormal emissions the operator shall; <ul style="list-style-type: none"> <input type="checkbox"/> investigate and undertake remedial action immediately; <input type="checkbox"/> promptly record the events and actions taken; and <input type="checkbox"/> ensure the Regulator is made aware, as soon as practicable. 					
1	Is there an accident plan that complies with guidance covering the following aspects of foreseeable scenarios: likelihood, consequences, actions to prevent, action to take in the event it occurs?	Yes	4.0	4.0		To be implemented prior to operation
2	Has the plan identified areas where improvement is needed?	Yes	1.0	1.0		To be implemented prior to operation
3	Where improvement has been identified, does the plan include an implementation programme with acceptable timescales to the Agency? If not, 2 points will be deducted.	Yes	-2.0	0.0		To be implemented prior to operation
4	Are there written procedures for handling, investigating, communicating and reporting actual or potential non compliance with operating procedures or emission limits?	No	1.0	0.0		To be implemented prior to operation
5	Are there written procedures for handling, investigating, communicating and reporting environmental complaints?	Yes	1.0	1.0		To be implemented prior to operation
6	Are there written procedures for investigating incidents, (and near-misses) including identifying suitable corrective action and following up implementation of that action?	Yes	2.0	2.0		To be implemented prior to operation
7	In the last 2 years, have there been any notifiable incidents or releases for which it has been identified that lack of emergency planning was a contributory cause ?	No	-2.0	0.0		
8	Are there audit records of investigations into non compliance, complaints and incidents? Does the audit cover follow up actions? Do the audit reports go to senior managers?	Yes	3.0	3.0		To be implemented prior to operation
Emergency planning Total			12.0	11.0		

Operator Performance						
		Yes/No	Points available	Points scored	Post or group responsible for each requirement	Document reference (*) or date by which systems will be in place (*see para 4.4.2)
Organisation - 40%						
The following aspects of site management procedures and controls may not be in the permit conditions but are likely to have an impact on the Agency resources required to apply the Env Permitting Regulations.						
1	Do you operate an externally audited environment management system, if so answer one of the following questions. N.B Please enter your Certificate Number, Name of certification body and their UKAS Registration Number in the space for document reference.					
1.1	Is your Environmental Management System EMAS registered? If yes select Y and go to question 4.		20	0		
1.2	Is your Environmental Management System certified to ISO 14001? If yes enter Y and go to questions 3 and 4.	Yes	15	15		To be implemented prior to operation
1.3	Is your system an Environmental Management System subject to external audit through a third party audit programme with a published methodology (excludes in-house company audit programme). If yes enter and go to questions 3 and 4.		12	0		
Sub Total			Max 20	15.00		
2	If you do not operate an externally audited environmental management system then assess your system against the criteria below:					
2.1	Has your company adopted an environmental policy and programme which:					
	<input type="checkbox"/> includes a commitment to continual improvement and prevention of pollution?		1.0	0.0		
	<input type="checkbox"/> includes a commitment to comply with relevant legislation, and with other requirements that the organisation subscribes to?		1.0	0.0		To be implemented prior to operation
	<input type="checkbox"/> identifies, sets, monitors and reviews environmental objectives, independently of the permit?		1.0	0.0		
2.2	Are there procedures that incorporate environmental issues into the following areas (as supported by demonstrable evidence e.g. written procedures):					
	<input type="checkbox"/> the control of process change on the installation;		1.0	0.0		
	<input type="checkbox"/> design and review of new facilities (including provision for their decommissioning), engineering and other capital projects;		1.0	0.0		
	<input type="checkbox"/> capital approval;		1.0	0.0		
	<input type="checkbox"/> purchasing policy;		1.0	0.0		
2.3	Are there audits, at least annually, to check that all activities are being carried out in conformity with the above requirements?		1.0	0.0		
2.4	Are they independent? (name the auditing body)		2.0	0.0		
2.5	Are there reports annually on environmental performance, objectives and targets, future planned improvements and or facilitate (participate in) local community liaison meetings?		1.0	0.0		
3	Does your company produce a public environmental statement? You may score in this box for ISO 14001 and industry systems but not for EMAS as this is a requirement for EMAS.		1.0	0.0		To be implemented prior to operation
4	Within the past 5 years have you failed to meet an improvement condition either set by the Agency in a Permit or Variation by the due date, without prior agreement? (minus 2 for each failure). ADD NUMBER OF FAILURES NOT Y OR N	0	-2.0	0.0		
Organisational Totals			20.0	15.00		

Operator Performance

		Yes/No	Points available	Points scored	Post or group responsible for each requirement	Document reference (*) or date by which systems will be in place (*see para 4.4.2)
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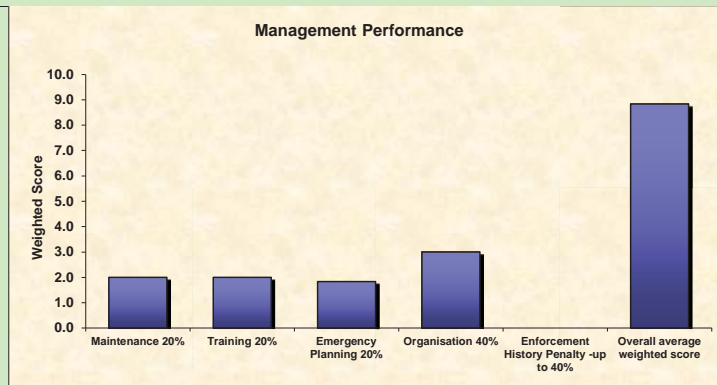
Enforcement History (0 to -40% weighting)

					Notice etc	Date Issued	Date Spent
1	Enforcement , Improvement, Works, Compliance or Restoration Notices issued in the past year by the Environment Agency under any legislation, by the Health and Safety Executive relevant to the COMAH Regulations or by local authorities under Part I of the Environmental Protection Act 1990 or relevant notice or Abatement Notices issued by local authorities or magistrates courts under Part III of the Environmental Protection Act 1990	0	None 0 1st - 5 2nd -10 3rd or more -40				
2	Formal cautions, Enforcement Undertakings or Fixed Monetary Penalties issued by the Environment Agency in respect of offences under any legislation in the last 3 years.	0	None 0 1st - 5 2nd -10 3rd or more -40				
3	Prohibition, Stop, Suspension or Revocation Notices issued by the Environment Agency under any legislation, by the Health and Safety Executive relevant to the COMAH Regulations or by local authorities under Part I of the Environmental Protection Act 1990 in the last 3 years	0	None 0 1st - 10 2nd or more -40				
4	Convictions on prosecutions brought by the Environment Agency under any legislation, by the Health and Safety Executive relevant to the COMAH regulations or by local authorities (in respect of offences under Parts I or III of the Environmental Protection Act 1990) in last 5 years (10 years where imprisonment was imposed). Or any Variable Monetary Penalty. [NB each individual offence counts separately].	0	None 0 1st - 15 2nd or more -40				

Enforcement History Total					
	Entered	Spent	Extant	Score	
1 Enforcement etc Notices	0	0	0	0	
2 Formal Cautions etc	0	0	0		
3 Prohibition etc Notices	0	0	0		
4 Convictions on Prosecutions etc	0	0	0		
Enforcement History Total (min -40)				0	

Operator Performance

		Yes/No	Points available	Points scored	Post or group responsible for each requirement	Document reference (*) or date by which systems will be in place (*see para 4.4.2)
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Band E= less than 2 D= 2 to 3.99, C= 4 to 5.99, B= 6 to 7.99 , A= 8 to 11	BAND=	A
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Company : MGT Teesside Limited	Permit: TP3538GF
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Data calculations generating the above graph					
Summary	Max	Score from above	Normalised to scale out of 10	Weighting	Weighted score
Maintenance 20%	12.00	12.00	10.00	20.00	2.0
Training 20%	17.00	17.00	10.00	20.00	2.0
Emergency Planning 20%	12.00	11.00	9.17	20.00	1.8
Organisation 40%	20.00	15.00	7.50	40.00	3.0
Enforcement History Penalty -up to 40%	-40.00	0.00	0.00	40.00	0.0
Overall average weighted score					8.8

Opra Banded Profile

Organisation Name:	MGT Teesside Limited
Case Number:	TP3538GF

Attribute		Profile before any rules or capping applied		Opra Banded Profile used for charging	
		Number	Band	Number	Band
Complexity		0	A	0	A
		0	B	0	B
		0	C	0	C
		1	D	1	D
		0	E	0	E
Emissions	Air		D		D
	Water		-		-
	Land		-		-
	Sewer		-		-
	Waste Off Site		-		-
	Waste Input		-		-
Location			C		C
Operator Performance			A		A

Organisation Name: MGT Teesside Limited Case Number: TP3538GF

EPR Installations Application Charge Calculation

(excludes Compliance Rating)

Scoring Summary - Financial



Attribute	Band	Score	Total Score
Complexity	A	0	2
	B	0	15
	C	0	45
	D	1	82
	E	0	110
Emissions to Air	D		35
Emissions to Water	-		0
Emissions to Land	-		0
Emissions to Sewer	-		0
Emissions to Off-site Waste	-		0
Emissions - Waste Input	-		0
Location	C		20
Operator Performance	A		10
Total Opra charging score			147.00

Indicative Fees & Charges ☒ England ☐ Wales

Application Fee	£	30,282.00
Subsistence Charge*	£	14,847.00
Substantial Variation	£	16,611.00
Standard Variation	£	8,526.00
Partial Surrender	£	14,553.00
Full Surrender	£	18,669.00
Closure	£	-

Part A(2) and Part B Activities

Please ensure that you have completed these entries in the Listed Activities sheet. The charge shown will not include any charges associated with Local Authority Part A (2) or Part B activities that form part of the installation. Refer to Installations Charging Scheme for further details.

Opra Charge Multipliers	
Application	206
Subsistence	101
Substantial Variation	113
Standard Variation	58
Partial Surrender	99
Full Surrender	127
Closure (Landfill only)	

* Does not take into account Compliance Rating

7 PROPOSED AMENDMENTS TO PRE-OPERATIONAL / IMPROVEMENT CONDITIONS

7.1 Proposed Amendments to Existing Pre-Operational Condition 2

- 7.1.1 As discussed in Section 1.3, an EPC contract for the Development will be let in two months' time which will be based on the current ELVs in the Permit and the Wish List and any other requirements proposed by the EA taking into account the potential implications of the final revised LCP BREF in the proposed design, construction and operation of the Development.
- 7.1.2 Following publication of the revised LCP BREF operators will have four years (assumed, at this stage, to be until the end of 2019) to accord with the new BAT conclusions presented in that document.
- 7.1.3 POC2 of the Permit currently states:
- "At least 4 months prior to commencement of operations at the site the Operator shall send to the Agency a report detailing a BAT assessment for the final power station [...] against BAT standards within the IPPC Sector Guidance Note – EPR 1.01 – Combustion Activities dated March 2009."*
- 7.1.4 It is assumed that the SGN referred to in POC2 will be updated to accord with the revised LCP BREF and that this will be relevant document to be used as the basis for the required BAT assessment. At the time of the undertaking of the BAT assessment, should an updated SGN not be available, it is anticipated that the BAT assessment will use the BAT conclusions of the revised LCP BREF. Therefore it is proposed that POC2 be amended to:
- "At least 4 months prior to commencement of operations at the site the Operator shall send to the Agency a report detailing a BAT assessment for the final power station. This assessment shall include an assessment of the proposed procedures for raw material delivery and storage, waste production, storage and disposal, in addition to the operation of the boilers and turbines against the relevant, prevailing BAT Conclusions (as defined in EU Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)) and the relevant, prevailing EA Sector Guidance Notes. The report shall include a demonstration that these aspects of the operational procedures are in line with what has been accepted as BAT for the site during the determination of this Permit, and will enable the Operator to conform with the conditions within this Permit."*
- 7.1.5 Following publication of the revised LCP BREF and within the prescribed time frame for compliance, MGT will review the potential impacts of all appropriate information regarding the technology and operation (including emissions) of the Development. MGT proposes to submit a further application to vary the Permit as a consequence of the content of the revised LCP BREF, if required and at the appropriate time.

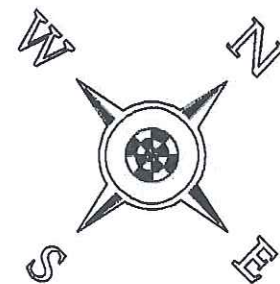
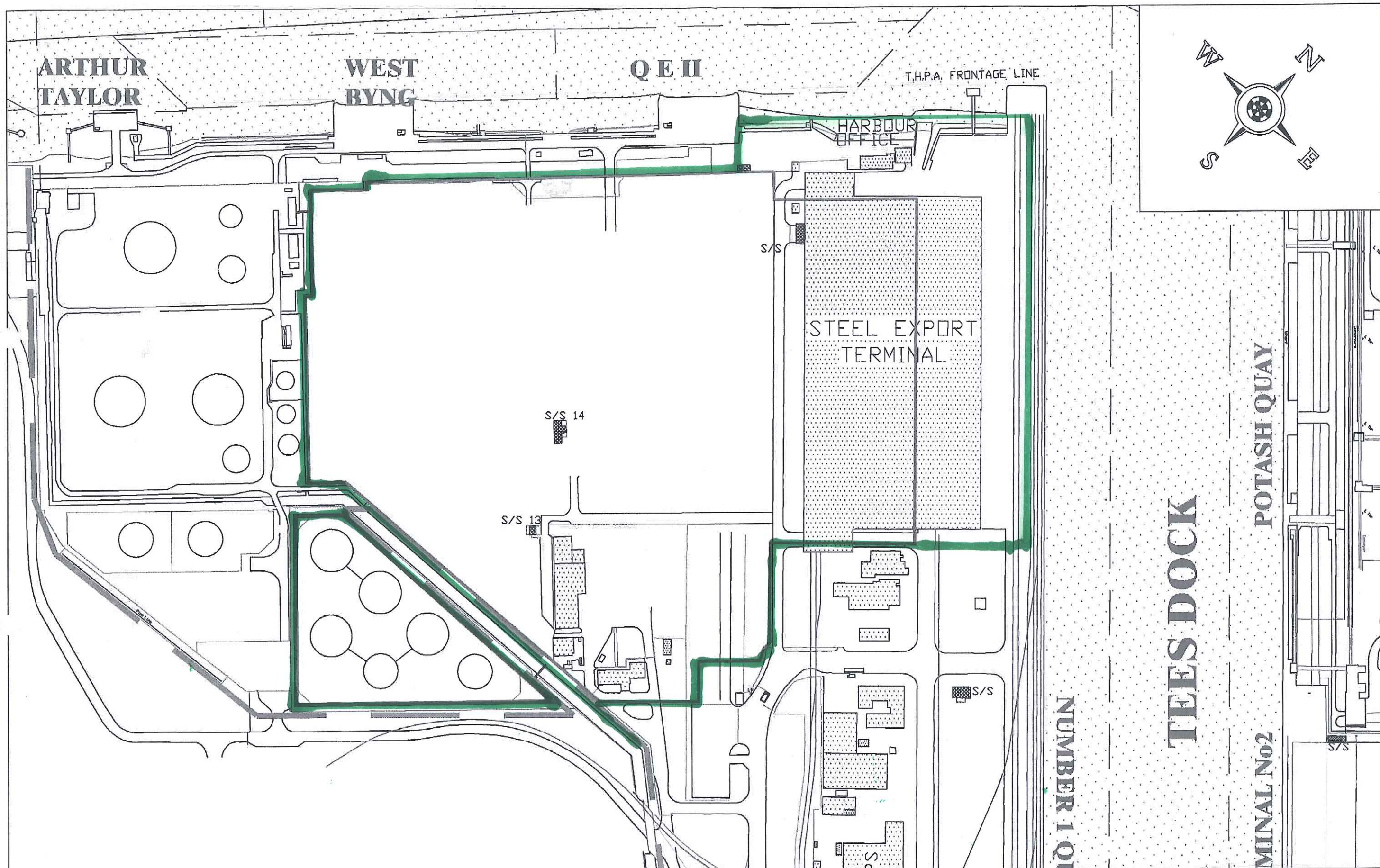
7.2 Proposed New Pre-Operational Condition

- 7.2.1 The detailed design process is not currently complete and, as discussed in Section 1.3, an EPC contract for the Development is expected to be let in two months' time. Once awarded, the design of the Development may still require further refinement / modification.
- 7.2.2 However, as the detailed design of the Development has progressed, the process has identified that some alterations to the layout and dimensions of the buildings on the Development site (from that originally considered with the Application) may be required.
- 7.2.3 Therefore this application seeks to agree a POC in relation to identifying material changes, if any, on the results and conclusions of previous air dispersion modelling studies of the Development based on the final layout and dimensions of the buildings.
- 7.2.4 It is proposed that the following text is added to the Permit as POC9:
- "At least 4 months prior to the commencement of operations at the site the Operator shall submit to the Agency a report detailing the final layout and dimensions of the*

Development (including buildings and emissions points). The report shall also include an analysis of whether there will be material changes to the results and conclusions of previous air dispersion modelling studies for Development as a result of any differences between the final layout and that presented in Schedule 2 – Site Plan of the original Environmental Permit. Where material changes cannot be screened out, the Operator shall submit to the Agency a report presenting the results and conclusions of an air dispersion modelling study based on the final layout and dimensions of the Development."

APPENDIX A

PROPOSED AMENDMENTS TO INSTALLATION BOUNDARY



PD TEESPORT

Design Office
Vulcan Street
Middlesbrough
TS2 1LX
01642 877 000

SCALE 1:2500

JB

15.08.08

TEESDOCK
MGT POWER WOOD BURNING POWER STATION
LEASE PROPERTY

08/112A

