Application for a Part B permit

Environmental Permitting (England and Wales) Regulations 2016

Introduction

When to use this form
If you are sending an application to a Local Authority under the Environmental Permitting (England and Wales) Regulations 2010 and the installation requires an air pollution control permit (known as "Part B" installations).

Before you fill in this form
Do please read relevant parts of the Defra general guidance manual. Chapter 4 is about making an application, Chapter 7 is about how permits are decided, and Chapter 12 gives the meaning of Best Available Techniques (BAT). Other chapters introduce the Regulations and give information about various issues.

You also need to read the relevant process guidance note to see what standards and requirements are likely to be expected of your installation.

Pre-application discussions
It is usually sensible to talk to one of our pollution control officers before you complete and submit the application. Contact [ ]

Which parts of the form to fill in
Please fill in as much of it as possible and enclose the appropriate fee. Then send it to:

Insert local authority address

Other documents you may need to submit
You will need to send us various other documents. The application form tells you which ones. It will be simplest for all concerned if you give a reference number for each document and record it on both this form and on the document itself. Please use any existing documents where you can and they are suitable.

Using continuation sheets
Feel free to use a continuation sheet, but you need to clearly identify where you have done so.

Copies - *not relevant for e-applications*
If you are submitting a paper application, please send the original and [ ] copies of the form and all other supporting material, for consultation purposes.

LAPPC application form: to be completed by the operator		
For Local Authority use		
Application reference	**Officer reference**	**Date received**

A The basics

A1 Name and address of the installation

Lake View Bereavement Centre, Crematorium and Burials
Chatteris Road
Mepal
Ely
Cambridgeshire
Postcode: CB6 2AZ Telephone tbc

A2 Details of any existing environmental permit or consent *(for waste operations, please include planning permission for the site, including established use certificates, a certificate of lawful existing use, or why the General Permitted Development Order)*

Reference no.	Issuing regulator	Type of permit
25/00176/VAR3M	East Cambridge District Council	Consent for Planning

A3 Operator details (*The 'operator' = the person who it is proposed will have control over the installation in accordance with the permit (if granted).)*

Name: Marisa Rogers-Jones

Trading name, if different

Registered office address Principal office address, if different
Company registration number

A4 Any holding company?

Is the operator a subsidiary of a holding company within the meaning of section 1159 of the Companies Act 2006? If "yes" please fill in details of the ultimate holding company.

No [x] Yes [ ]

Name Trading name, if different N/A
Registered office address Principal office address, if different
Company registration number

A5 Who can we contact about your application?

Name Marisa Rogers-Jones, Crematorium and Bereavement Service Manager Tel: 07591 449870 Email: marisa.rogers-jones@eastcambs.gov

B The installation

What activities are or will be carried on at the installation? Please include "directly associated activities" – this term is explained in Annex III in Part B of the general guidance manual

Main activities	Section in Schedule 1 to the EP Regulations
The installation will comprise: One single electrically powered cremator for the cremation of human remains. The primary activity undertaken will be: • The cremation of human remains within a fully enclosed cremation chamber	**Schedule 1, Part 2, Section 5.1, Part B(a) – Cremation of human remains.**
The following activities take place at Lake View Bereavement Centre but do not form part of the regulated installation: • Chapel services • Bereavement administration • Office functions • Grounds maintenance • Memorialisation activities There are no other combustion activities, incineration processes, or fuel storage associated with this installation.	

Directly-associated activities (including waste operations)	Schedule 1 references (if any)
The installation will consist of a single electrically powered cremator for human cremation. Directly associated activities will include: Receipt and temporary storage of coffins prior to cremation Operation of the electrically powered cremator and associated abatement equipment Cooling and processing of cremated remains Collection and processing of cremated remains Removal and appropriate disposal of residual metal	**Schedule 1, Part 2, Section 5.1, Part B(a) – Cremation of human remains.**

following cremation (via an approved metal recycling scheme) Routine maintenance of the cremator and associated plant There will be no on-site fuel storage, as the cremator is electrically powered. Waste produced will be limited to: Recovered metals from cremation (removed by an authorised contractor) General office and welfare waste Packaging waste from consumables and maintenance materials All waste will be stored securely and removed by licensed waste contractors in accordance with Duty of Care requirements.	

B2 Why is the application being made?

[X] new installation

[ ] change to existing installation means it now needs a permit

B3 Site maps

Please provide: -

- A location map showing with a red line round the boundary of the installation

Doc reference ECDC-ACM-XX-XX-DR-LA-000001 REV P02/ (25_00176_VAR3M-Landscape_general_arrangements_main_site-166196) D200004 – CDS-EN-ZZ-L-001-04

- A site plan or plans showing where all the relevant activities are on site, including storage areas, emission/discharge points, and any directly associated waste operations

Doc reference ECDC-ACM-XX-XX-DR-LA-000001 REV P02

C The details

C1 How will the installation operate?

Doc reference: _____

The installation comprises one single electrically powered cremator designed for the cremation of human remains.

Pre-Operational Checks

Prior to operation:

- The cremator will undergo daily safety and operational checks
- The primary and secondary combustion chambers will be pre-heated to the required operating temperature
- Automated control systems will confirm temperature parameters are achieved before charging

No cremation will commence unless the secondary chamber has reached the prescribed minimum operating temperature in accordance with statutory guidance.

Charging of the Cremator

- The coffin is placed into the primary combustion chamber using a mechanised charging system
- The chamber door is closed and sealed before the cremation cycle begins

The process is fully enclosed.

Combustion Process

Primary Chamber:

- Cremation takes place within the electrically heated primary combustion chamber
- Combustion gases are generated during this process

Secondary Chamber:

- All gases pass to the secondary combustion chamber (afterburner)
- Gases are subjected to high temperature to ensure complete oxidation of products of incomplete combustion and destruction of odorous compounds

Emissions Control and Discharge

- Following treatment, gases pass through the integrated abatement system (as specified by the manufacturer), designed to meet the requirements of Process Guidance Note PG5/2 (12)
- Emissions are discharged via a single flue stack to atmosphere

There are no additional emission points.

Cooling and Ash Processing

- Following completion of the cremation cycle, remains are allowed to cool within the chamber
- Cremated remains are then carefully removed and processed
- Residual metals are separated and stored securely prior to removal by a licensed recycling contractor

Start-Up and Shut-Down

The cremator incorporates:

- Automatic temperature interlocks
- Controlled start-up sequence
- Controlled cool-down cycle

These systems ensure emissions are not released untreated during start-up or shut-down.

Abnormal Operation

In the event of:

- Power failure
- Temperature deviation
- Control system fault

The system will automatically prevent charging or suspend operation until safe operating conditions are restored.

Summary

The installation will operate as a single, electrically powered cremation line with:

- One controlled emission point
- Automated process control
- Integrated abatement
- No on-site fuel combustion

C2 Emissions, techniques and monitoring?

What pollutants (including odour) and how much are expected to be emitted into the atmosphere? Please say which stage of the process each emission will come from and also whether from a particular chimney, vent or other source (fugitive). Please include emissions during starting and shutting down the plant, and from possible breakdowns or accidents identified by a risk assessment.

What techniques will be used to minimise each emission in line with BAT? What monitoring has been undertaken (give results) and what monitoring is proposed?

Sources of Emissions to Air

The installation comprises one electrically powered cremator with a single flue stack as the only point of atmospheric discharge.

Stage 1 – Primary Combustion Chamber

Emissions arise during the cremation process from combustion of the coffin and human remains.

Potential pollutants generated:

- Carbon dioxide (CO_2)
- Water vapour
- Carbon monoxide (CO)
- Oxides of nitrogen (NOx)
- Particulate matter (PM)
- Volatile organic compounds (VOCs)
- Trace mercury vapour (from dental amalgam)

These gases pass directly to the secondary combustion chamber.

Stage 2 – Secondary Combustion Chamber (Afterburner)

All combustion gases are routed to the secondary chamber where they are subjected to high temperature oxidation to ensure destruction of products of incomplete combustion and odorous compounds.

This stage significantly reduces:

- Carbon monoxide
- VOCs
- Odorous compounds
- Dioxins and furans

Final Discharge Point

Following treatment and abatement, emissions are discharged via one dedicated flue stack (single emission point)

There are no additional chimneys, vents or fugitive emission sources associated with the cremation process.

Doc Reference: 007 DWF Electric Emission Geleen

Further detail on emissions control, monitoring and reporting is provided below:

Detailed Emissions Control, Monitoring and Reporting

Emission Limits and Standards

Emissions from the cremator will be controlled in accordance with Process Guidance Note PG5/2 (12) and relevant environmental permitting requirements.

Indicative emission limits include:

- Mercury: 50 µg/m³
- Total particulate matter: 20 mg/m³
- Carbon monoxide (CO): 100 mg/m³

- Volatile organic compounds (VOCs): 20 mg/m³
- Hydrogen chloride (HCl): 30 mg/m³
- Dioxins and furans: 0.1 ng/m³

All emission concentrations will be expressed at standard reference conditions (273.1K, 101.3 kPa, 11% oxygen, dry gas).

Continuous Monitoring Systems

The cremator will be equipped with continuous monitoring systems to ensure effective operational control and compliance.

Parameters continuously monitored include:

- Secondary combustion chamber temperature
- Oxygen concentration
- Carbon monoxide (CO) levels

The system will:

- Record data continuously throughout each cremation cycle
- Provide visual and audible alarms where operating parameters fall outside permitted limits
- Prevent charging if minimum temperature conditions are not achieved
- Automatically suspend operation if safe operating conditions are not maintained

The secondary combustion chamber will operate at a minimum temperature of 750°C, with automatic interlocks in place to prevent operation below this threshold.

Monitoring equipment will be maintained and calibrated in accordance with manufacturer recommendations.

Periodic (Non-Continuous) Monitoring

Periodic emissions testing will be undertaken by an appropriately accredited contractor to verify compliance with emission limits.

This will include:

- Annual testing for:
  - Mercury
  - Hydrogen chloride
  - Volatile organic compounds
- Dioxins and furans testing on commissioning and as required
- Periodic particulate monitoring in accordance with regulatory guidance

All monitoring will be carried out using recognised standards and methodologies agreed with the Regulator.

Combustion Control and Process Monitoring

The cremator will operate under controlled combustion conditions to ensure complete and efficient combustion.

Key parameters include:

- Secondary chamber temperature ≥ 750°C
- Minimum gas residence time of 2 seconds
- Continuous monitoring of oxygen levels

The system incorporates:

- Automated process controls
- Temperature interlocks
- Alarm systems for deviations
- Continuous data logging

These controls ensure optimal combustion efficiency and minimise emissions.

Abatement and Emissions Reduction Techniques (BAT)

The cremator incorporates Best Available Techniques (BAT) to minimise emissions.

These include:

- High-temperature secondary combustion
- Integrated abatement system as specified by the manufacturer
- Filtration and gas treatment systems (where applicable)

Where fitted, mercury abatement systems will reduce emissions from dental amalgam in accordance with regulatory requirements.

These systems ensure emissions are treated prior to release to atmosphere.

Monitoring, Recording and Reporting

The operator will maintain comprehensive records including:

- Continuous monitoring data
- Periodic emissions testing results
- Maintenance and calibration records
- Cremation logs
- Incident and deviation records

Records will:

- Be retained for a minimum of 2 years
- Be made available to the Local Authority upon request

The operator will:

- Notify the Regulator prior to emissions testing
- Submit monitoring results in accordance with agreed requirements
- Investigate and report any exceedances

Abnormal Events and Breakdown Procedures

In the event of abnormal operation, including:

- Equipment failure

- Temperature deviation
- Abatement system malfunction

The system will:

- Automatically prevent charging or suspend operation
- Activate alarms
- Record the event

The operator will:

- Investigate the cause
- Implement corrective actions
- Record all details
- Notify the Regulator where required

Operation will not resume until safe conditions are restored.

Start-Up and Shut-Down Emissions Control

During start-up and shut-down:

- The cremator will not operate until minimum temperature conditions are achieved
- Temperature interlocks will ensure emissions remain controlled
- No cremation will take place unless compliant operating conditions are met

This ensures that no untreated emissions are released during these phases.

C3 Environmental management?

What environmental management procedures and policy will you deploy?

This Environmental Management System supports the operational and emissions control measures outlined in Section C2.

Lake View Bereavement Centre will operate a structured Environmental Management System (EMS) proportionate to the scale of the installation (one electrically powered cremator).

The EMS will include written procedures covering:

- Operation of the cremator in accordance with manufacturer specifications
- Compliance with Local Authority Permit conditions
- Maintenance and servicing schedules
- Emissions monitoring and record keeping **(as detailed within Section C2)**
- Waste handling and Duty of Care compliance
- Incident and breakdown management
- Complaints handling procedure

Management Responsibility

Overall responsibility for environmental compliance will sit with:

The Crematorium and Bereavement Services Manager (or designated Responsible Officer)

Operational responsibility for day-to-day compliance will sit with:

The Crematorium Technician (appropriately qualified – ICCM Certificate or equivalent)

Clear lines of responsibility will be documented and reviewed annually.

Maintenance and Servicing

The cremator and abatement equipment will be:

- Maintained in accordance with manufacturer recommendations
- Subject to planned preventative maintenance
- Serviced by competent engineers
- Recorded in a maintenance log

Any defects affecting emissions performance will result in suspension of operation until rectified.

Monitoring & Record Keeping

The following records will be maintained:

- Cremation log (date, time, identification reference)
- Primary and secondary chamber temperatures
- Servicing and maintenance records
- Emissions test results
- Waste transfer notes
- Incident reports

Records will be retained and made available to the Local Authority upon request.

Training & Competence

All relevant staff will:

- Hold appropriate cremator operation qualifications (ICCM or equivalent)
- Receive site-specific training
- Undertake refresher training as required
- Be made aware of permit conditions and environmental responsibilities

Incident & Complaint Management

A documented procedure will be in place for:

- Equipment malfunction
- Power failure
- Abnormal emissions

- Odour complaints

Any substantiated complaint will be:

- Investigated promptly
- Recorded
- Reported to the Local Authority where required
- Used to inform corrective action

Continuous Improvement

Lake View Bereavement Centre is committed to:

- Operating in line with Best Available Techniques (BAT)
- Minimising environmental impact
- Reviewing procedures annually
- Maintaining compliance with Process Guidance Note 5/2 (12)

The use of an electrically powered cremator supports reduced environmental risk through elimination of on-site fossil fuel combustion.

Doc Reference: _____

C4 Impact on the environment?

what are the potential significant local environmental effects (including nuisance) of the foreseeable emissions?

Emissions to Air

- Combustion gases (CO_2, water vapour)
- Trace particulates
- Carbon monoxide (CO)
- Oxides of nitrogen (NOx)
- Trace mercury vapour (controlled via abatement, if fitted)

These emissions are controlled through:

- Secondary combustion chamber
- Automated temperature controls
- Abatement equipment
- Compliance with Process Guidance Note 5/2 (12)

Due to:

- Controlled discharge via a single flue stack
- Low throughput relative to industrial processes
- Electric operation (no on-site fossil fuel combustion)

The impact on local air quality is expected to be minimal and within statutory limits.

Odour

The cremation process is enclosed and subject to high-temperature secondary combustion.

Under normal operating conditions, no offensive odour is expected beyond the site boundary.

Noise sources are limited to:

- Cremator operation (internal plant)
- Occasional mechanical handling equipment

The cremator is housed within a purpose-built building and is not expected to generate noise beyond background levels at the site boundary.

Waste streams are limited to:

- Recovered metals (removed by licensed contractor)
- Minor maintenance consumables
- General office waste

No hazardous waste is stored on site.

Given the scale of the installation (one electric cremator), the controlled emission point, and compliance with statutory guidance, no significant adverse local environmental effects are anticipated.

a) are there any sites of special scientific interest (SSSIs) or European protected sites nearer than any of the following distances to the proposed installation:

   - **2km - where the installation includes Part B combustion, incineration (not cremation), iron and steel, or non-ferrous metal activities**
   - **1km - where the installation involves mineral or cement and lime activities**
   - **½ km - in all other cases?**

   No [x] Yes [ ]

b) **if "yes", is the installation likely to have a significant effect on these sites and, if so, what are the implications for the purposes of the Conservation (Natural Habitats etc) Regulations 1994 (see appendix 2 of Annex XVII of the general guidance manual)**

c) **has an environmental impact assessment been carried out for the installation under planning legislation or for any other purpose. If so, please provide a copy**

   Doc Reference: _____

D Anything else?

Please tell us anything else you would like us to take account of.

Doc Reference Please refer to all documents relating to the Electric Cremator

001 Automatic charging bier
002 Complete Filter system JPG
003 Description Filter system JPG
004 DFW Ashtreatment table en storage EN
005 DFW Cremulator2_EN-18012022
006 DFW Electric Cremator2 EN-01-06-2022
007 DFW Electric Emission Geleen
008 Explanation of equivalence DFW Electric
009 Filter complete
010 Information Filteration System Limits DFW Europe
012 Technical Information CEM Systems

Application fee

You must enclose the relevant fee with your application. If your application is successful you will also have to pay an annual subsistence charge, so please say who you want invoices to be sent to.

Marisa Rogers-Jones
Crematorium and Bereavement Service Manager
The Grange
Ely
Cambridge
CB7 4EE

F Protection of information

G1 Any confidential or national security info in your application?

If there is any information in your application you think should be kept off the public register for confidentiality or national security reasons, please say what and why. General guidance manual chapter 8 advises on what may be excluded. (*Don't include any national security information in your application. Send it, plus the omitted information, to the Secretary of State or Welsh Ministers who will decide what, if anything, can be made public.)*

Doc Reference _____

G2 Please note: data protection

The information you give will be used by the Council to process your application. It will be placed on the relevant public register and used to monitor compliance with the permit conditions. We may also use and or disclose any of the information you give us in order to:

- consult with the public, public bodies and other organisations,
- carry out statistical analysis, research and development on environmental issues,

- provide public register information to enquirers,
- make sure you keep to the conditions of your permit and deal with any matters relating to your permit
- investigate possible breaches of environmental law and take any resulting action,
- prevent breaches of environmental law,
- offer you documents or services relating to environmental matters,
- respond to requests for information under the Freedom of Information Act 2000 and the Environmental Information Regulations 2004 (if the Data Protection Act allows)
- assess customer service satisfaction and improve our service.

We may pass on the information to agents/representatives who we ask to do any of these things on our behalf.

G3 Please note: it is an offence to provide false etc information

It is an offence under regulation 38 of the EP Regulations, for the purpose of obtaining a permit (for yourself or anyone else), to:

- make a false statement which you know to be false or misleading in a material particular,
- recklessly make a statement which is false or misleading in a material particular
- intentionally to make a false entry in any record required to be kept under any environmental permit condition
- with intent to deceive, to forge or use a document issued or required for any purpose under any environmental permit condition.

If you make a false statement

- we may prosecute you, and
- if you are convicted, you are liable to a fine or imprisonment (or both).

H Declarations A and B for signing, please

These declarations should be signed by the person listed in answer to question A3. Where more than one person is identified as the operator, all should sign. Where a company or other body corporate is the operator, an authorised person should sign and provide evidence of authority from the board.

Declaration A: I/We certify

EITHER- No offences have been committed in the previous five years which are relevant to my/our competence to operate this installation in accordance with the EP Regulations.

OR- The following offences have been committed in the previous five years which may be relevant to my/our competence to operating this installation in accordance with the regulations:

Signature M Rogers Jones Name Marisa Rogers-Jones

Position Crematorium and Bereavement Service Manager Date: 3 March 2026

Declaration B: I/We certify that the information in this application is correct. I/We apply for a permit in respect of the particulars described in this application (including the listed supporting documentation) I/we have supplied. *(Please note that each individual operator must sign the declaration themselves, even if an agent is acting on their behalf.)*

Signature Name Marisa Rogers-Jones

Position Crematorium and Bereavement Service Manager **Date** 3 March 2026

Signature M Rogers-Jones **Name** MARISA ROGERS-JONES

Position CREMATORIUM AND BEREAVEMENT SERVICE MANAGER **Date** 21-05-2026