

EP Permit ref: **PPC/B/10** Variation ref: **V03/2012** 

## **Barrow-in-Furness Borough Council**

### THE ENVIRONMENTAL PERMITTING (ENGLAND AND WALES) REGULATIONS 2010 (AS AMENDED), REGULATION 18 AND 20

# VARIATION NOTICE

To Barrow-in-Furness Borough Council, Town Hall, Barrow-in-Furness, Cumbria. LA14 2LD

**Barrow-in-Furness Borough Council** ("the Council"), in the exercise of the powers conferred upon it by Regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010<sup>1</sup> ("the 2010 Regulations") hereby gives you notice as follows:

The Council has decided to vary the conditions of permit reference **PPC/B/10** granted under Regulation 13(1) of the 2010 Regulations in respect of the operation of the installation at

#### Thorncliffe Crematorium, Devonshire Road, Barrow-in-Furness, Cumbria. LA14 5PD

The variation of the conditions of the permit and the date(s) on which they are to take effect are specified in Schedule 1 to this notice. A consolidated permit as varied by this notice is set out in Schedule 2.

Signed on behalf of Barrow-in-Furness Borough Council

**Date:** Wednesday 5<sup>th</sup> September 2012

Environmental Health Manager An authorised officer of the Council

<sup>1</sup> SI 2010/675

EP Permit ref:	<b>PPC/B/10</b>
Variation ref:	V03/2012



# SCHEDULE 1

VARI	VARIATION TO THE CONDITIONS OF THE PERMIT				DATE(S) ON WHICH THE VARIATION IS TO TAKE PLACE	
			Insertion of Co	onditions		
From combu in Tab	the ustion le Thr	provisions (for	2013, the con parameters) and 4 shall apply to		(for substances), quirements outlined	10 <sup>th</sup> September 2012
All po	llutan xygen	ts shall be exp v/v, dry gas u E Substance Hydrogen chloride	Concentration limits 200mg/m <sup>3</sup> averaged		73K, 101.3kPa and Monitoring frequency Annual	
	2	(excluding particulate matter) Total particulate matter from cremator (see note 1)	over an hour 80mg/m <sup>3</sup> averaged over an hour for 95% of cremations and 160mg/m <sup>3</sup> averaged over an hour for all cremations	Qualitative Monitoring (see note 1) <ul> <li>Provide visual alarms and record levels and alarms</li> </ul> <li>Plus <ul> <li>Instrument health check</li> </ul> </li> <li>Plus <ul> <li>Periodic Monitoring</li> <li>Use results to set reference levels for continuous emissions monitor (CEM)</li> </ul> </li>	Continuous Plus Annual Plus Annual	10 <sup>th</sup> September 2012
	3	Carbon monoxide	100mg/m <sup>3</sup> averaged over the first hour for 95% of cremations; and 200mg/m <sup>3</sup> averaged over the first hour for all cremations	Qualitative Monitoring         Record data at 15         second intervals or less         Provide visual alarms and record alarm events         Plus         Instrument Health check	Continuous Plus Annual Plus Annual	

	Organic compounds (excluding particulate matter) expressed as carbon mbustion provisions in Rou 5 shall be applied PCDD/F On existing processes for cremators that don't meet the combustion provisions above	20mg/m <sup>3</sup> averaged over an hour of cremation vs 7-9 are not met, then the 1ng/m <sup>3</sup> as ITEQ	Plus Periodic Monitoring • Validation of continuous emissions monitor (CEM) output through comparison with periodic test results Periodic Monitoring • Continuous monitoring of any temperature, oxygen and flow parameters that apply during dioxin tests should be required by the permit • Interlock to prevent cremator loading unless those	Annual toring provision in Upon commissioning of new or replacement cremators	
			parameters are met.		
Concent	ration limits for cremated	remains reduction plant (reg	ulators) venting externally are g	riven in Row 6	
6	Pation limits for cremated Particulate matter from cremated remains reduction plant that vents externally	remains reduction plant (regi 50mg/m <sup>3</sup> with no correction for oxygen concentration or water vapour	Gross Filter failure detection Instrument Health Check	Testing at commissioning Service interval as specified by manufacturer	
Row	Parameter	Combustion provision	Type of monitoring	Monitoring Frequency	
7	Temperature Residence time	Minimum of 1123K (850°C) 2 seconds residence	Measure at the exit of the secondary combustion zone (measuring point should be the last measuring thermocouple)     Automatically record temperatures     Visual alarm when temperature falls below 1123K     Interlock to prevent cremator loading to operate when temperature and combustion provisions in Row 7-9 are not met	Continuous On commissioning of new	
8	Residence time	2 seconds residence time (minimum) in the secondary chamber without correction for temperature, oxygen or water vapour	Measurement and calculation of the volume rate of the flue gases throughout the cremation cycle at the cremator exit	On commissioning of new or replacement cremators	
9	Oxygen	At the end of the secondary combustion chamber; measured dry, 6% average and 3% minimum	<ul> <li>Monitor and record of concentration at outlet of secondary combustion zone</li> <li>Visual alarm and record activations</li> <li>During discontinuous tests, continuous reference oxygen measurements should be at the same sampling location as the parameters tested</li> </ul>	Continuous	

Note 1 - the term "qualitative" monitoring refers to those particulate continuous emissions monitors (CEM) where the instrument response shall be correlated to the results of multiple isokinetic gravimetric samples according to the standard reference method (SRM) which is typically EN-13284-1. See also paragraphs 4.4 – 4.11 and Table 5 of the process guidance note.	
Condition 9 inserted and reads: All continuous emissions monitoring shall provide reliable data >95% of the operating time. A manual or automatic procedure shall be in place to detect instrument malfunction and to monitor instrument availability.	10 <sup>th</sup> September 2012
Condition 10 inserted and reads: The introduction of dilution air to achieve emission concentration limits shall not be permitted	10 <sup>th</sup> September 2012
<ul> <li>Condition 19 inserted and reads:</li> <li>From 1st August 2013, for temperature and oxygen, the operator shall report the following continuous monitoring values to the regulator every 6 months</li> <li>Secondary chamber entrance temperature, 4-weekly/monthly maximum and minimum (of 5 minute averages)</li> <li>Secondary chamber exit temperature, 4-weekly/monthly maximum and minimum (of 5 minute averages)</li> <li>Oxygen concentration, 4-weekly/monthly minimum (of 5 minute averages)</li> </ul>	10 <sup>th</sup> September 2012
Condition 20 inserted and reads: Where values in Condition 17, 18 and/or 19 have been exceeded in any 4- weekly/monthly or 6-monthly reporting period, records shall be kept that identify the number of times that the limit was exceeded during the reporting period, the levels of exceedance, and the time, date and cremation reference. This data shall be kept and available for inspection by the regulator.	10 <sup>th</sup> September 2012
Condition 26 inserted and reads: Within 3 months, the operator shall provide a list of key arrestment plant and shall have a written procedure for dealing with its failure, in order to minimise any adverse effects.	10 <sup>th</sup> September 2012
Condition 29 inserted and reads: The operator shall keep records of quarterly gas consumption for inspection by the regulator. Consumption shall be converted into CO2 equivalent emissions using the following conversion equation: Gas Usage (kWh) x conversion factor – kgCO2e	10 <sup>th</sup> September 2012

Condition 33 inserted and reads:				
Packaging for stillbirth, neonatal and foetal remains shall not include any chlorinated plastics.				September 2012
ndition 49 inserted a	nd reads:			10 <sup>th</sup>
operator shall kee dition 48.	o an audited lis	t of essential i	tems that relate to	September 2012
ndition 50 inserted a	nd reads:			
to mass fatalities, w	nich shall address	the holding of a	ergencies which give Idditional spares and h plan shall be made	10 <sup>th</sup> September 2012
	Deletion of Co	onditions		
	n/a			
	Amendment of	Conditions		
ndition 1 shall be an	ended to read:			10 <sup>th</sup>
The emission limits and other provisions outlined in Tables One and Two of Condition 2 shall apply to both cremators until 31st July 2013.				
Condition 2 shall be amended to read:				
All pollutants shall be expressed in reference conditions: 273K, 101.3kPa and 11% oxygen v/v, dry gas unless otherwise stated TABLE ONE				
Substance	Concentration limits	Type of monitoring	Monitoring frequency	
Hydrogen chloride (excluding particulate matter)	200mg/m <sup>3</sup> averaged over an hour	Extractive test, BS EN 1911 parts 1 to 3	Annual	10 <sup>th</sup> September
Total particulate matter	80mg/m <sup>3</sup> averaged over an hour for 95% of cremations and	Provide visual alarms and record levels and alarms	Continuous indicative and	2012
Carbon monoxide	160mg/m <sup>3</sup> averaged over an hour for all cremations 100mg/m <sup>3</sup> averaged over	Manual extractive test, BS ISO 9096:2003 Record data at less	Annual Continuous indicative	
	the first hour for 95% of cremations and	than 10 second intervals		
	200mg/m³ averaged over the first hour for all cremations	<ul> <li>No more than 3 cremators per analyser</li> <li>Provide visual alarms and record alarm events</li> <li>BS ISO 12039</li> </ul>	and Annual test	
	the first hour for all	cremators per analyser Provide visual alarms and record alarm events		

<b>г</b>	Organia comod-	20mg/m <sup>3</sup> augu	DC EN 12610	Annual test	
	Organic compounds (excluding particulate	20mg/m <sup>3</sup> averaged over an hour of cremation	BS EN 12619 up to 20mg/m <sup>3</sup>	Annual test	
	matter) expressed as		BS EN 13256 over		
-	carbon Particulate matter from	50mg/m <sup>3</sup> with no	20mg/m <sup>3</sup> Manual extractive	On commissioning	
	cremated remains	correction for oxygen	Wanual extractive	On commissioning	
	reduction plan that vents	concentration or water			
	externally	vapour			
TABLE					
TADLL	100				
	Parameter	Combustion provision	Type of monitoring	Monitoring	
	Temperature	Minimum of 1123K	<ul> <li>Measure at the</li> </ul>	Frequency Continuous	
	i chiperatare	(850°C) in the secondary	entrance and		
		combustion chamber	after the exit		
			from the secondary		
			combustion zone		
			<ul> <li>Automatically</li> </ul>	<ul> <li>Continuous</li> </ul>	
			record temperatures		
			<ul> <li>Visual alarm</li> </ul>	<ul> <li>Record alarm activations</li> </ul>	
			when temperature		
			falls below		
			1123K		
			<ul> <li>Interlock to prevent</li> </ul>	<ul> <li>To operate when temperature and</li> </ul>	
			cremator	combustion provisions	
			overloading	for residence time and	
	Posidonco tima	2 coconde rocidance time !-	Mossuromentand	oxygen are not met	
	Residence time	2 seconds residence time in the secondary chamber	Measurement and calculation of the	On commissioning	
		without correction for	volume rate of the flue		
		temperature, oxygen or	gases throughout the		
		water vapour	cremation cycle at the cremator exit		
	Oxygen	At the end of the secondary	<ul> <li>Monitor and record</li> </ul>	Continuous	
		combustion chamber,	of concentration at	Antivete element	
		measured wet or dry, minimum average 6% and	outlet of secondary combustion zone	Activate alarms when oxygen falls	
		minimum 3%	<ul> <li>Visual alarm and</li> </ul>	below provision	
			record alarm		
			activations During		
			discontinuous tests,		
			continuous		
			reference oxygen measurements		
			should be at the		
			same sampling		
			location as the parameters tested		
	If the above combustion pro	visions are not met, then the diox		ring provision in the row	
	below should be applied	1	•		
	PCDD/F On existing processes for	1ng/m3 as ITEQ	Extractive, BS EN 1948 parts 1 to 3.	On commissioning	
	cremators that don't meet		parto = 10 01	Continuous	
	the combustion provisions		Temperature, oxygen		
	above		and any flow parameters that apply		
			during the dioxin tests,		
			should be required by		
			the permit.		
			Interlock to prevent		
			cremator loading unless		
			those parameters are met		
		1		1	
					a oth
Condi	tion 15 renumbe	ered to become C	ondition 5		10 <sup>th</sup>
					September
					-
					2012
	tion 16 ronumbe	ered to herome C	ondition 6 and	amended to read:	±L
Condi		בוכט נט אפנטווופ ע	onunuun o anu	amenueu to read.	10 <sup>th</sup>
Condi					
Condi					
			al alarm to wo	in the operator of	September
Instrur		itted with a visu	al alarm to wa	arn the operator of	

Condition 17 renumbered to become Condition 7	10 <sup>th</sup>
	September 2012
Condition 18 renumbered to become Condition 8 and amended to read:	
All continuous monitors shall be operated, maintained and calibrated in accordance with the manufacturer's instructions, which shall be made available for inspection by the regulator. The relevant maintenance and calibration shall be recorded.	10 <sup>th</sup> September 2012
Condition 24 shall be renumbered to become Condition 11 and read:	10 <sup>th</sup>
The operator shall ensure that adequate facilities for sampling are provided on vents or ducts.	September 2012
Condition 25 shall be renumbered to become Condition 12	10 <sup>th</sup> September 2012
Condition 3 shall be renumbered to become Condition 13	10 <sup>th</sup> September 2012
Condition 5 shall be renumbered to become Condition 14	10 <sup>th</sup> September 2012
Condition 6 shall be renumbered to become Condition 15	10 <sup>th</sup> September 2012
Condition 7 shall be renumbered to become Condition 16	10 <sup>th</sup> September 2012
Condition 20 shall be renumbered to become Condition 17 and amended to read:	
For each cremator, every 6 months a report shall be submitted containing the following continuous monitoring data for carbon monoxide and particulate matter. The data shall be submitted covering each period of either four weeks or a calendar month:	10 <sup>th</sup>
<ul> <li>Monthly averages from the first hour of each cremation</li> <li>Values that exceed the 95% limit for each substance in that period for each cremation</li> <li>60 minute mean emission values that exceed the 100% limit for carbon monoxide and particulate matter in that period for each cremation</li> <li>A list of the highest 60 minute mean emission value for each period</li> <li>The 95-percentile value for each period</li> </ul>	September 2012

Condition 21 shall be renumbered to Condition 18 and amended to read:	
Until 31st July 2013, for temperature and oxygen, the operator shall report the following continuous monitoring values to the regulator every 6 months	10 <sup>th</sup>
<ul> <li>Secondary chamber entrance temperature, 4-weekly/monthly maximum and minimum</li> <li>Secondary chamber exit temperature, 4-weekly/monthly maximum and minimum</li> </ul>	September 2012
<ul> <li>Oxygen concentration, 4-weekly/monthly minimum (of 5 minute averages)</li> </ul>	
Condition 8 shall be renumbered to Condition 21 and amended to read:	10 <sup>th</sup>
Emissions from cremations shall be free from visible smoke	September 2012
Condition 11 shall be renumbered to Condition 22	10 <sup>th</sup> September
Condition 12 shall be renumbered to Condition 22	2012 10 <sup>th</sup>
Condition 12 shall be renumbered to Condition 23	September
	2012
Condition 9 shall be renumbered to Condition 24	10 <sup>th</sup>
	September
	2012
Condition 10 shall be renumbered to Condition 25	10 <sup>th</sup>
	September
	2012
Condition 13 shall be renumbered to become Condition 27	10 <sup>th</sup>
	September
	2012
Condition 14 shall be renumbered to become Condition 28	10 <sup>th</sup>
	September
Condition 26 shall be required to Condition 20	2012 10 <sup>th</sup>
Condition 26 shall be renumbered to Condition 30	September
	2012
Condition 27 shall be renumbered to Condition 31	10 <sup>th</sup>
	September
	2012
Condition 28 shall be renumbered to Condition 32	10 <sup>th</sup>
	September
	2012
Condition 29 shall be renumbered to Condition 34	10 <sup>th</sup>
	September
	2012

Condition 30 shall be renumbered to Condition 35	10 <sup>th</sup>
	September
	2012
Condition 31 shall be renumbered to Condition 36	10 <sup>th</sup>
	September
	2012
Condition 32 shall be renumbered to Condition 37 and amended to	
read:	$10^{th}$
	September
All cremators shall be designed to ensure complete combustion and shall be	2012
fitted with a secondary combustion zone.	
Condition 33 shall be renumbered to Condition 38	10 <sup>th</sup>
	September
	2012
Condition 34 shall be renumbered to Condition 39	10 <sup>th</sup>
	September
	2012
Condition 35 shall be renumbered to Condition 40	10 <sup>th</sup>
	September
	2012
Condition 36 shall be renumbered to Condition 41	10 <sup>th</sup>
	September
	2012
Condition 37 shall be renumbered to Condition 42	10 <sup>th</sup>
	September
	2012
Condition 38 shall be renumbered to Condition 43	10 <sup>th</sup>
	September
Condition 39 shall be renumbered to Condition 44	2012 10 <sup>th</sup>
Condition 39 shall be renumbered to condition 44	September
	2012
Condition 40 shall be renumbered to Condition 45	10 <sup>th</sup>
contractor to shar be renambered to condition 45	September
	2012
Condition 41 shall be renumbered to Condition 46	10 <sup>th</sup>
	September
	2012
Condition 42 shall be renumbered to Condition 47	10 <sup>th</sup>
	September
	2012
Condition 43 shall be renumbered to Condition 48 and amended to	10 <sup>th</sup>
read:	September
The operator shall ensure that spares and consumables, in particular those	2012
The operator shall ensure that spares and consumables, in particular those	

subject to continual wear, are held on site, or shall be available at short notice from guaranteed local suppliers, so that plant breakdowns can be rectified rapidly.	
Condition 44 renumbered to become Condition 51	10 <sup>th</sup> September 2012
Condition 45 renumbered to become Condition 52	10 <sup>th</sup> September 2012
Condition 46 shall be renumbered to Condition 53 and amended to read: A written maintenance and cleaning programme shall be kept with respect to pollution control equipment, including control instrumentation and the cremator secondary chamber, and ducts and flues. This written program shall be available on site for inspection by the regulator.	10 <sup>th</sup> September 2012
Condition 47 renumbered to become Condition 54	10 <sup>th</sup> September 2012
Condition 49 renumbered to become Condition 55	10 <sup>th</sup> September 2012

Signed on behalf of Barrow-in-Furness Borough Council

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Date: Wednesday 5<sup>th</sup> September 2012

Environmental Health Manager An authorised officer of the Council EP Permit ref: **PPC/B/10** Variation ref: **V03/2012** 

# SCHEDULE 2

Permit reference PPC/B/10 as varied by this notice.

## Guidance for operators receiving a Variation Notice

(This guidance does not form part of the Variation Notice, but it is for the guidance of those served with the notice.) Further guidance can be found in the PPC <u>General Guidance Manual</u>.

### **Dealing with a Variation Notice**

This notice varies the terms of the permit specified in the Notice by amending or deleting certain existing conditions and/or adding new conditions. The Schedules attached to the notice explain which conditions have been amended, added or deleted and the dates on which these have effect.

The Council may have included a 'consolidated permit', which takes into account these and previous variations. Where a consolidated permit is not included this variation notice must be read in conjunction with your permit document.

### **Offences**

Failure to comply with a Variation Notice is an offence under regulation 38(2) of the 2010 Regulations. A person guilty of an offence under this regulation could be liable to (i) a fine of up to £50,000 or imprisonment for a term not exceeding 6 months or both; or (ii) to an unlimited fine or imprisonment for a term not exceeding 5 years or both, depending on whether the matter is dealt with in the Magistrates or Crown Court.

#### Appeals

Under regulation 31 and Schedule 6 of the 2010 Regulations operators have the right of appeal against the conditions attached to their permit by a variation notice. The right to appeal does not apply in circumstances where the notice implements a direction of the Secretary of State/Welsh Ministers given under regulations 61 or 62 or a direction when determining an appeal.

Appeals against a Variation Notice do not have the effect of suspending the operation of the Notice. Appeals do not have the effect of suspending permit conditions, or any of the mentioned notices.

Notice of appeal against a Variation Notice must be given within **two months** of the date of the variation notification, which is the subject matter or the appeal. The Secretary of State/Welsh Ministers may in a particular case allow notice of appeal to be given after the expiry of this period, but would only do so in the most compelling circumstances.

#### How to appeal

There are no forms or charges for appealing. However, for an appeal to be valid, appellants (the person/operator making the appeal) are legally required to provide the Secretary of State or Welsh Minister with the following (see paragraphs 2(1) and (2) of Schedule 6 of the 2010 Regulations):

written notice of the appeal

- a statement of the grounds of appeal;
- a copy of any relevant application;
- a copy of any relevant environmental permit;
- a copy of any relevant correspondence between the appellant and the regulator;
- a copy of any decision or notice which is the subject matter of the appeal; and
- a statement indicating whether the appellant wishes the appeal to be in the form of a hearing or dealt with by way of written representations.

Appellants should state whether any of the information enclosed with the appeal has been the subject of a successful application for confidentiality under regulation 48 of the 2010 Regulations, and provide relevant details – see below. Unless such information is provided all documents submitted will be open to inspection.

#### Where to send your appeal documents

Appeals should be despatched on the day they are dated, and addressed to:

The Planning Inspectorate Environment Team, Major and Specialist Casework Room 4/04 Kite Wing Temple Quay House 2 The Square Temple Quay Bristol BS1 6PN

Or for appeals in Wales:

The Planning Inspectorate Crown Buildings Cathays Park CARDIFF CF10 3NQ

If an appeal is made, the main parties will be kept informed about the next steps, and will also normally be provided with additional copies of each other's representations.

To withdraw an appeal – which may be done at any time - the appellant must notify the Planning Inspectorate in writing and copy the notification to the local authority who must in turn notify anyone with an interest in the appeal.

#### <u>Costs</u>

The operator and local authority will normally be expected to pay their own expenses during an appeal. Where a hearing or inquiry is held as part of the appeal process, by virtue of paragraph 5(6) of Schedule 6, either the appellant or the authority can apply for costs. Applications for costs are normally heard towards the end of the proceedings and will only be allowed if the party claiming them can show that the other side behaved unreasonably and put them to unnecessary expense. There is no provision for costs to be awarded where appeals are dealt with by written representatives.

#### **Confidentiality**

An operator may request certain information to remain confidential, i.e. not be placed on the public register. The operator must request the exclusion from the public register of confidential information at the time of supply of the information requested by this notice or any other notice. The operator should provide clear justification for each item wishing to be kept from the register. The onus is on the operator to provide a clear justification for each item to be kept from the register. It will not simply be sufficient to say that the process is a trade secret.

The test of whether information is confidential for the purposes of being withheld from the public register is complex and is explained, together with the procedures, in chapter 8 of the PPC General Guidance Manual.

#### National security

Information may be excluded from the public register on the grounds of National Security. If it is considered that the inclusion of information on a public register is contrary to the interests of national security, the operator may apply to the Secretary of State/Welsh Ministers, specifying the information and indicating the apparent nature of risk to national security. The operator must inform the local authority of such an application, who will not include the information on the public register until the Secretary of State/Welsh Ministers has decided the matter.