

Variation notice with introductory note

Environmental Permitting (England & Wales) Regulations 2007

Lafarge Cement UK plc, Aberthaw
Works

Lafarge Cement UK plc
East Aberthaw
Barry
Vale of Glamorgan
CF62 3ZR

Variation notice number
EA/EPR/BL3986ID/V005

Permit number
BL3986ID

Lafarge Cement UK, Aberthaw Works Permit Number BL3986ID

Introductory note

This introductory note does not form a part of the permit

The following notice, which is issued pursuant to regulation 20 and Part 1 of Schedule 5 of the Environmental Permitting (England and Wales) Regulations S.I.2007 No. 3538 (the Regulations), gives notice of the variation of an environmental permit to operate a regulated facility.

The variation notice is issued in response to:

- process changes resulting in the installation of a total of five new silos and associated release points,
- changes to two conditions related to the use of Continuous Emission Monitors that were incorrectly worded in the original WID Cement Works permit template,
- the instatement of a rail transport facility for bulk material despatch from the facility,
- updating the permitted maximum thermal substitution level for MBM.

Schedule 1 of this notice lists any deleted conditions, Schedule 2 lists any amended conditions and Schedule 3 lists any conditions that have been added.

Status Log of the permit		
Detail	Date	Response Date
Application BL3986	Received 28/08/01	
Commercial Confidentiality Claim	Received 28/08/01	Company withdrew claim by letter dated 12/09/01
Response to request for information	Request dated 12/10/01	Response dated 02/01/02 Final submission of revised application on CD format
Response to request for information	Request dated 10/01/02	Response dated 31/07/02 Response dated 15/08/02 Response dated 06/12/02
Operator's first request to extend deadline of response to request for information	Request dated 05/04/02	Request accepted and confirmed on 08/07/02
Operator's second request to extend deadline of response to request for information	Request dated 02/08/02	Request accepted and confirmed on 07/08/02
Operator's third request to extend deadline of response to request for information	Request dated 08/08/02	Request accepted and confirmed on 08/08/02. Information received on 15/08/02
Response to request for information	Request dated 03/10/02	Response dated 21/10/02
Permit BL3986	Determined 21/01/03	
Application to use MBM as a substitute fuel	Received 13/07/04	Duly made 27/07/04
Schedule 7 notice for Additional information	Issued 30/07/04	Response 27/08/04
Variation NP3437PH	Determined 10/12/04	
Application for variation	Received 21/03/05	WID
Request for further information	Request dated 31/08/05	Response received 21/09/05
Request for further information, HCl emissions	Request dated 24/11/05	Response received 25/11/05
Request for further information, SO ₂ model and location of ammonia storage tank	Request dated 30/11/05	Response received 30/11/05
Variation JP3134SY	Determined 08/12/05	
Application for variation	Duly made 29/06/06	
Variation notice YP3736LY issued	12/07/06	
Application for variation	Duly made 15/08/08	
Additional Information Received	26/08/08	
Variation determined	19/09/08	

End of Introductory Note

Notice of variation

Environmental Permitting
(England and Wales) Regulations 2007

Permit number

BL3986ID

The Environment Agency in exercise of its powers under Regulation 20 of the Environmental Permitting (England and Wales) Regulations 2007 (SI 2000 No 3538) varies the permit as set out below.

Lafarge Cement UK plc ("the operator"),

whose registered office is

**Lafarge Cement UK plc
Granite House
Granite Way
Syston
Leicester
LE7 1PL**

company registration number 66558

holds a permit to operate a regulated facility at

**Lafarge Cement UK plc
Aberthaw Works
Barry
Vale of Glamorgan
CF62 3ZR**

and that permit is varied to the extent set out in Schedules 1 to 3 of this notice.

The notice shall take effect from 19th September 2008

Name	Date
Andrew Gibbs 	19/9/2008

Authorised on behalf of the Agency

Schedule 1 – conditions to be deleted

1. Condition 6.1.15.2 is deleted.

Schedule 2 – conditions to be amended

2. Condition 1.1.1 is amended to:

1.1.1 The Operator is authorised to carry out the activities and/or the associated activities specified in Table 1.1.1.

Activity under Schedule 1 of the Regulations/ Associated Activity	Description of specified activity	Limits of specified activity
Producing or grinding cement clinker [Schedule 1 Activity – Chapter 3, Section 3.1, Part A(1)(a)]	The operation of a dry cement making process.	Area defined in the site layout plan, resubmitted in response to the request for further information Notice.
Raw material storage, handling and preparation [directly associated activity]	Receipt of raw materials or recovery of raw materials from quarry. Preparation and storage of raw materials or process feedstocks. The raw meal is pneumatically transported to a system of blending silos before discharge to storage silos prior to being fed to the kiln for clinker manufacture.	Recovery of raw materials from the quarry floor or receipt on site through crushing, blending, other processing and feeding materials to the kiln system. Area defined in the site layout plan, resubmitted in response to the request for further information Notice.
Conventional solid fuel storage and preparation [directly associated activity]	The raw fuel mix is stored on open stockpiles prior to grinding into pulverised fuel, which is stored in hoppers and then fired to the kiln.	Area defined in the site layout plan, resubmitted in response to the request for further information Notice.
Product handling, storage and despatch [directly associated activity]	Product handling, storage, packing and despatch.	The cement is pneumatically transported from the mill house to storage silos. Cement held in these silos is loaded into road tankers or bagged. Materials are despatched from site by road or rail. Area defined in the site layout plan, resubmitted in response to the request for further information Notice.
Substitute fuel storage [directly associated activity]	Substitute fuel storage and handling systems, specifically MBM.	Receipt on site, storage and feeding to kiln burner.

3. Condition 2.2.1 is amended to:

2.2.1 The Operator shall, subject to the conditions of this Permit, use raw materials (including water) as described in the documentation

specified in Table 2.2.1, or as otherwise agreed in writing by the Agency.

Table 2.2.1 : Raw materials (including water)		
Description	Parts	Date Received
Application	The response to question 2.2 given in section 2.2 of the application	Final Resubmitted Application (CD format) on 04/01/02
Application to use MBM as a substitute fuel	Application details related to MBM as a fuel	13/07/04
Response to Schedule 7 request for information dated 27/08/04	All parts	27/08/04
Application to use lime for HCl abatement and alternative raw materials	All parts	30/05/08

4. Condition 2.2.4 is amended to:

2.2.4 The materials detailed in Table 2.2.4 shall be stored in the location and manner specified in that table.

Table 2.2.4 : Raw materials (including water)		
Material	Location of Storage on site	Storage Conditions
Coal/petcoke blend	Dedicated fuel stockyard	Open stockpile
Ferrous sulphate	Dedicated storage silo	Silo
MBM	Dedicated storage silo	Silo equipped with dust filter and carbon filter
Ammonia solution for SNCR	Ammonia bulk storage tank	Within bunded area.
Lime	Dedicated storage silo	Silo equipped with dust filter
Alternative raw materials	Two dedicated storage silos	Silos equipped with individual dust filters connected to a single release point
Pulverised fuel ash	Dedicated storage silo	Silo equipped with dust filter

5. Condition 2.2.4 is amended to:

2.3.4 Substitute fuel shall not be burned, or the feed of substitute fuel shall be shut-down, on the kiln during periods of unstable operation or if:

- the kiln is in start-up (as agreed in writing with the Agency); or
- the kiln is in shutdown (as agreed in writing with the Agency); or
- any continuous emission limit value in Table 6.1.2 is exceeded due to disturbances or failures of the abatement systems; or
- when the raw meal feed rate is less than 85te/hr; or
- the temperature in the kiln, as indicated by the surrogate thermocouple in stage four of the preheater tower, is below or falls below 850°C; or
- monitoring devices required to demonstrate compliance with any continuous emission limit value in Table 6.1.2 are out of service for a period of four hours uninterrupted duration; or
- the cumulative duration of periods of CEMs failure over one calendar year on the kiln exceeds 60 hours

6. Condition 2.3.2 is amended to:

2.3.2 Only the substitute fuel and quantities specified in Table 2.3.2 shall be used at the Permitted Installation.

Table 2.3.2: Permitted substitute fuel

Description	European Waste Catalogue Number (where available), other specification or limitation	Thermal input at any time	
		Minimum	Maximum
MBM	EWC 02 02 02 and Conditions 2.2.3 and 2.2.5	0% thermal substitution	22% thermal substitution

7. Condition 6.1.1 is amended to:

6.1.1 Emissions to air from the emission point(s) specified in Table 6.1.1 shall only arise from the source(s) specified in that Table.

Table 6.1.1: Emission points into air

Emission point reference/description	Source	Location of emission point
A1	Chimney to No.6 cement kiln	Point A1 on the site layout plan, resubmitted in response to the request for further information Notice.
A2	3000 HP cement mill dust plant	Point A2 on the site layout plan, resubmitted in response to the request for further information Notice.
A3	3000 HP cement mill separator	Point A3 on the site layout plan, resubmitted in response to the request for further information Notice.

A4	3000 HP cement mill- conveyor to cement mill clinker hopper	Point A4 on the site layout plan, resubmitted in response to the request for further information Notice.
A5	Combined discharge from closed circuit venting system on coal milling plant	Point A5 on the site layout plan, resubmitted in response to the request for further information Notice.
A6	OPC bag loading facility	Point A6 on the site layout plan, resubmitted in response to the request for further information Notice.
A7	OPC bag loading facility	Point A7 on the site layout plan, resubmitted in response to the request for further information Notice.
A8	Silo reserved for bulk cement	Point A8 on the site layout plan, resubmitted in response to the request for further information Notice.
A9	Silo reserved for bagged cement	Point A9 on the site layout plan, resubmitted in response to the request for further information Notice.
A10	Raw meal blending, storage, handling and kiln feed facility	Point A11 on the site layout plan, resubmitted in response to the request for further information Notice.
A11	Clinker handling system from kiln to storage	Point A12 on the site layout plan, resubmitted in response to the request for further information Notice.
A12	Primary stone crusher at Aberthaw Quarry	Point A13 on the site layout plan, resubmitted in response to the request for further information Notice.
A13	Secondary stone crusher within the cement works	Point A14 on the site layout plan, resubmitted in response to the request for further information Notice.
A14	Coal mill vacuum plant	Point A15 on the site layout plan, resubmitted in response to the request for further information Notice.
A15	Rapid hardening cement bulk loading facility	Point A17 on the site layout plan, resubmitted in response to the request for further information Notice.
A16	Clinker conveyors to main clinker store	Point A18 on the site layout plan, resubmitted in response to the request for further information Notice.
A17	Bulk cement silo	Point A20 on the site layout plan, resubmitted in response to the request for further information Notice.
A18	Carbon filter vent on MBM storage silo	Point A18 on plan supplied on

		26/8/08
A19	Ammonia storage	Point A19 on plan supplied on 30/11/05
A20	Alternative raw material silos	Point A20 on plan supplied on 26/8/08
A21	Pulverised fuel ash silo	Point A21 on plan supplied on 26/8/08
A22	PLC Bulk cement silo	Point A22 on plan supplied on 26/8/08
A23	Hydrated lime silo	Point A23 on plan supplied on 26/8/08

8. Condition 6.1.4 is amended to:

6.1.4 The Operator shall carry out monitoring of the parameters listed in Table 6.1.4, from the emission points and at least at the frequencies specified in that Table.

Table 6.1.4: Emission limits into air

Parameters	Total Particulates (mg/m ³)				Frequency and duration
	Hourly Average	Daily Average	Annual Average	Periodic	
Emission Point A2	40	30	None	30	Continuous and annual periodic monitoring
Emission Point A3	40	30	None	30	Continuous and annual periodic monitoring
Emission Point A4 to A23	No evidence of deposition in the vicinity of the release point				

Schedule 3 – conditions to be added

9. None.