



Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Knauf Insulation Ltd

Queensferry Mineral Fibre Works
Chemistry Lane
Queensferry
Deeside
Flintshire
CH5 2DA

Variation application number

EPR/BR9383ID/V004

Permit number

EPR/BR9383ID/V004

Queensferry Mineral Fibre Works

Permit number EPR/BR9383ID/V004

Introductory note

This introductory note does not form a part of the notice.

The following notice gives notice of the variation of an environmental permit.

The changes introduced by this variation notice are modifications to the main discharge stack (emission points A and C) and proposals to use a system of hydrogen peroxide treatment of effluent prior to discharge to sewer.

The existing stack has two concentric flues discharging exhaust gas from the melting furnace through the inner flue and from the spinning chamber through the annular flue. The variation is to remove the inner stack, allowing the two gas streams to mix in the body of the outer stack. A discharge cone will be added to the top of the stack to maintain the same discharge velocity as the existing arrangement. The variation was proposed in order to eliminate problems of corrosion products being discharged from the inner stack during the start-up procedure for the furnace, when increased gas flows are used for safety reasons. During furnace start-up the spinning chamber exhaust flow will be at a reduced rate so that the combined flow will be below the velocity at which the corrosion products can be carried up the body of the stack.

The existing discharge to sewer consists of the excess water from the effluent recycling system. No limits have previously been imposed on these discharges by the sewerage undertaker, who has now requested that changes are made to reduce the chemical oxygen demand on the treatment works. The operator proposes to carry out trials, using hydrogen peroxide treatment of the effluent. The treatment process requires pH reduction prior to hydrogen peroxide treatment, followed by pH adjustment prior to discharge. This variation notice includes an improvement condition requiring the operator to carry out the necessary trials to optimise the use of the effluent treatment process.

The Schedules specify the changes made to the original permit.

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

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status Log of permit		
Detail	Date	Response Date
Application BR9383 (EPR/BR9383/A001)	06/08/2002	
Permit Issued BR9383 (EPR/BR9383/001)	25/06/2004	
Application for Variation NP3835SW EPR/BR9383/V002	Received 07/12/2004	
Variation issued NP3835SW (EPR/BR9383/V002)	22/02/2005	
Application for Variation EPR/BR9383ID/V003	Received 11/09/2008	
Variation issued EPR/BR9383ID/V003	12/02/2009	
Application for Variation EPR/BR9383ID/V004	Received 15/11/2010	
Additional Information	18/01/2011	Received 07/02/2011
Variation issued EPR/BR9383ID/V003	21/02/2011	

End of Introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/ BR9383ID/V004

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies the environmental permit issued to

Knauf Insulation Ltd ("the operator")

whose registered office is

**PO Box 10
Stafford Road
St Helens
Merseyside
WA10 3NS**

company registration number 1926842

to operate a regulated facility at

**Chemistry Lane
Queensferry
Deeside
Flintshire
CH5 2DA**

to the extent set out in the schedules.

The notice shall take effect from 21 February 2011

Name

Date



21 February 2011

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None

Schedule 2 – conditions to be amended

The following conditions are amended as a result of the application made by the operator

Table S1.2 (Operating techniques) is amended by the addition of details for this variation:

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to question B2.3 given in sections B2.3 of the application	31/07/02
Supplementary Information	Information provided in Section 2 of the supplementary information	09/03
Supplementary Information	Information provided throughout the document	11/03
Schedule 4 Notice Issued 17th March 2004	Responses to questions 7, 8, 9, 10, 11 and 12	14/04/04
Variation Application NP3835SW	Responses to question C2.1 to C12.	7/12/04
Supplementary Information	All	18/02/05
Proposed Monitoring Arrangements for Process Emissions 30/07/04	All	Agreed 1/9/04
Queensferry Site Groundwater Baseline Condition Report 29/09/04	All	Agreed 20/10/04
Proposed Groundwater Quality Monitoring Plan 29/09/04	All	Agreed 20/10/04
Improvements to Process Raw Materials Handling to Reduce Emissions 27/8/04	All	Agreed 20/11/04
Queensferry Site Proposed Changes to Melting and Forming 29/09/04	All	Agreed 8/02/05
Queensferry Site Proposed Changes to Product Finishing Plant Report 29/09/04	All	Agreed 8/02/05
Queensferry Site Proposed Accident Management Plan 29/09/04	All	Agreed 8/02/05
Queensferry Site Proposed Timetable for Emissions Sampling Point Improvement 20/11/04	All	Agreed 8/02/05
Queensferry Site Assessment of Ammonia Storage and Handling 30/11/04	All	Agreed 8/02/05
Queensferry Site Proposals to Minimise the Operating Time with the By-Pass Stack Open 30/11/04	All	Agreed 8/02/05

Table S1.2 Operating techniques

Description	Parts	Date Received
Queensferry Site Review of Process Activities with Regard to the Potential to Cause Odourous Emissions 30/03/05	All	Agreed 16/08/05
Queensferry Site Study Into The Potential Environmental Impact of Raw Materials Used 28/04/05	All	Agreed 16/08/05
Queensferry Site Water Usage Audit 30/12/05	All	Agreed 1/02/06
Queensferry Site Report of Methods of Minimising Discharges of Contaminated Water to Sewer 30/06/05	All	Agreed 16/08/05
Queensferry Site Review of Waste Production 5/05/06	All	Agreed 1/02/06
Queensferry Site Report of an Assessment of Underground Pipes Carrying Waste Water Around the Site 29/09/05, letter 28/10/05	All	Agreed 10/10/05
Queensferry Site Report of an Assessment of Options to Minimise Emissions from the Scrubber and Binder Plant (Emissions C and D) 31/10/05	All	Agreed 1/02/06
Queensferry Site Assessment of Dioxin Emissions from the Cupola Furnace Stack Release Point "A" 8/05/06	All	Agreed 11/07/06
Queensferry Site Noise Management Plan 30/11/05	All	Agreed 1/02/06
Release Point "O" Queensferry Mineral Fibre Works 14/01/09	Explanation relating to the removal of emission point O	
Proposed changes to Process Operation- Permit Number BR9383 4/05/07	All	Agreed 14/05/07
Definition of "melt" 25/08/04	All	
List of emission points submitted 9/02/09	All	
Variation Application EPR/BR9383ID/V003	Responses to question C2	11/09/08
Supplementary Information	All	27/11/08
Drawings titled Knauf Insulation Queensferry Site Plan 2009 and Site Plan 2008 EUETS Carbon Emission Points submitted 9/02/09	Emission Points	

Table S1.2 Operating techniques

Description	Parts	Date Received
Variation Application EPR/BR9383ID/V004	All	15/11/10
Supplementary Information received by e-mail	All	07/11/2011

Table S1.3 as referenced in condition 2.4.1 Improvement Programme is amended by the addition of one condition as follows:

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
31	<p>Carry out trials on the use of hydrogen peroxide to reduce COD in the effluent discharge to sewer.</p> <p>Submit a written plan to the Environment Agency for approval.</p> <p>The plan must contain the results of the trial of the use of hydrogen peroxide, including an environmental impact assessment for the permanent adoption of this technique. The plan must contain dates for the implementation of individual measures</p> <p>The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the plan.</p> <p>You must implement the plan as approved, and from the date stipulated by the Environment Agency.</p>	28/02/2012

Trials never carried out as plan changed

Schedule 3 – conditions to be added

None

