

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Thor Specialities (UK) Limited

Wincham Organic Specialities
Wincham Avenue
Wincham
Northwich
Cheshire
CW9 6GB

Variation application number
EPR/BL6403IQ/V005

Permit number
EPR/BL6403IQ

Wincham Organic Specialities

Permit number EPR/BL6403IQ

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.

This application is for a variation to the existing permit. It involves four aspects relating to one product, IPBC that is produced at Wincham. These are:-

The construction of a bund surrounded by a service road (change of installation boundary) and the storage of raw materials and intermediates in tanks within the new bund.

The installation of a standby boiler.

The increase of potential annual production quantity by the addition of a new reactor.

The replacement of the heptane recovery plant with a larger version. The new heptane recovery unit will operate at 10 MT of heptane recovery per day and will continue to be a directly associated activity to the IPBC process

The schedules specify the changes made to the original permit.

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

Status log of the permit		
Description	Date	Comments
Application BL6403IQ (under PPC 2000) (EPR/BL6403IQ/A001)	06/02/03	
Permit BL6403IQ determined	14/11/03	Permit issued
Application HP3437SG (EPR/BL6403IQ/V002)	19/05/05	
Variation HP3437HG determined	25/10/05	Varied permit issued
Application JP3938XS (EPR/BL6403IQ/V003)	01/02/08	
Variation (EPR/BL6403IQ/V003)	11/04/08	Varied permit issued
Application received (under EPR 2010) EPR/BL6403IQ/V004	Duly made 01/11/11	
Variation EPR/BL6403IQ/V004	09/11/11	Varied permit issued
Application received EPR/BL6403IQ/V005	Duly made 08/11/12	
Variation EPR/BL6403IQ/V005	20/12/12	Varied permit issued

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

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

Permit number
EPR/BL6403IQ

issued to:
Thor Specialities (UK) Limited (“the operator”)

whose registered office is

Wincham Avenue
Wincham
Northwich
Cheshire
CW9 6GB

company registration number 1761700

to operate a regulated facility

Wincham Avenue
Wincham
Northwich
Cheshire
CW9 6GB

to the extent set out in the schedules.

The notice shall take effect from 20/12/2012

Name	Date
Keith Landers	20/12/2012

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.

Condition 1.1.1 to be amended to:

1.1.1 The operator is authorised to carry out the activities and the associated activities specified in Table 1.1.1

Table 1.1.1

Activity listed in Schedule 1 of the PPC Regulations / Associated Activity	Description of specified activity	Limits of specified activity
Section 4.1A(1)(a) (ii) Producing organic compounds containing oxygen	Manufacture of organic compounds	
Section 4.1A(1)(a) (iii) Producing organic compounds containing sulphur	Manufacture of organic compounds	
Section 4.1A(1)(a) (iv) Producing organic compounds containing nitrogen	Manufacture of organic compounds	
Section 4.1A(1)(a) (v) Producing organic compounds containing phosphorus	Manufacture of organic compounds	
Section 4.2A(1)(a)(iv) Producing inorganic chemicals such as salts	Manufacture of inorganic salts	
Directly associated activity: Blending and adjusting	Mixing, blending and adjusting organic and inorganic compounds	
Directly associated activity: Solvent removal	Solvent removal by distillation at elevated temperature or under vacuum	
Directly associated activity: Storage of materials	Receipt, handling, storage and despatch of raw materials and finished products both packed and in bulk.	
Directly associated activity: Combustion activities	Burning natural gas in a steam boiler (1.7MW and 1.9MW output) and hot oil furnace (0.24MW output).	
Directly associated activity: Effluent treatment	Handling, treatment and discharge to sewer of aqueous effluent	
Directly associated activity: Waste handling and storage	Handling and storage of various solid and liquid wastes from the process.	
Directly associated activity: Recovering by distillation of an organic solvent	Recovery of solvent for re-use	

Condition 2.1.1 refers to Table 2.1.1 *Operating techniques* which shall be amended by the addition of the references to variation EPR/BL6403IQ/V005.

Table 2.1.1: Operating techniques

Description	Parts	Date Received
Application (BL6403IQ)	The response to questions 2.1 and 2.2 given in sections B2.1.1, B2.1.2 and B2.2 of the application	06/02/2003
Response to Schedule 4 Part 1 Notice	The response to questions 6 to 23 inclusive given in sections B2.1, B2.2, appendices 1 to 6 and plans 6 to 10.	21/07/2003
Application for variation HP3437SG (EPR/BL6403IQ/V002)	The response to questions C2.2 and C2.3 given in sections C1.0, C2.1.2, and C2.10 of the variation application	07/10/2005
Application for variation JP3938XS (EPR/BL6403IQ/V003)	The response to questions C2.2 and C2.3 given in sections 2.2 and 2.3 of the variation application	01/02/2008
Application for variation EPR/BL6403IQ/V004	Supporting information (revision 2) to the application for variation.	01/11/2011
Application for variation EPR/BL6403IQ/V005	Supporting information to the application for variation.	01/11/2012

Condition 2.2.1 refers to Table 2.1.1 *Emission points to air* which shall be amended by the addition of the references to variation EPR/BL6403IQ/V005.

Table 2.2.1 : Emission points to air

Emission point reference or description	Source	Location of emission point
A1 Production Hall Stack	General ventilation – air out LEV System, reaction vessels - breathing/ pressure release, liquid ring vacuum pumps	Point Stack 1 on amended site plan
A2A Steam Boiler Stack	Steam Boiler	Point Stack 2A on amended site plan
A2B Steam Boiler Stack	Steam Boiler	Point Stack 2B on amended site plan
A3 Hot Oil Generator Stack	Hot Oil Generator	Point Stack 3 on amended site plan
A4 Solvent recovery condenser vent	Reflux vessel condenser	Point Stack 4 on amended site plan
A5 Carbon bed for methanol storage	Methanol storage	Point Stack 5 on amended site plan
A6 Centrifuge carbon bed	Centrifuge	Point Stack 6 on amended site plan
A7 Heptane solvent purification carbon bed	Heptane recovery distillation unit	Point Stack 7 on amended site plan
A8 Carbon bed for propargyl alcohol storage	Propargyl Alcohol Storage	Point Stack 8 on amended site plan
A9 Carbon bed for n-butylisocyanate storage	n-Butylisocyanate Storage	Point Stack 9 on amended site plan
A10 Heptane solvent purification carbon bed	Heptane recovery distillation unit	Point Stack 10 on amended site plan

Condition 2.2.1.3 refers to Table 2.2.2 *Emission limits to air and monitoring* which shall be amended by the addition of the references to emission points A4, A5, A6 and A7.

Table 2.2.2 : Emission limits to air and monitoring

Emission point reference	Parameter	Limit (note1)	Monitoring frequency	Monitoring method
A1	Benzyl Chloride	10 mg/m ³	6 Months	BS EN 13649
A1	Formaldehyde	1 mg/m ³	6 Months	BS EN 13649
A1	Amines (total as DMA)	5 mg/m ³	6 Months	BS EN 13649
A1	Ammonia	15 mg/m ³	6 Months	Ion Chromatography; M2 version 1 table 6.6.4
A1	VOC total class B (expressed as carbon)	75 mg/m ³ (note 2)	6 Months	BS EN 13649
A4, A5, A6, A7, A8, A9, A10	VOC total class B (expressed as carbon)	75 mg/m ³ (note 2)	On request by Agency	BS EN 13649

Note 1: See Section 6 of the permit for reference conditions

Note 2: Concentration of 75 mg/m³ if mass release rate > 2kg/h

Schedule 3 – conditions to be added

None

Schedule 4 – amended plan

