

Notice of variation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Thor Specialities (UK) Limited

Wincham Organic Specialities
Wincham Avenue
Wincham
Northwich
Cheshire
CW9 6GB

Variation application number

EPR/BL6403IQ/V008

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 variation relates to the introduction of a second centrifuge to the IPBC process. The maximum annual output of the IPBC production process remains unaltered at 700t per annum. The process to make IPBC will remain the same. The second centrifuge will allow each IPBC reactor to have its own dedicated centrifuge and enable improved maintenance planning of each centrifuge without a full process shutdown.

This will introduce an additional emission point to air (A19).

In addition, following a process safety review, an existing emission point is to be relocated. Currently the V9/V12 reactors scrubber is vented to the main production hall stack, A1. Instead it will have its own emission point, and will be known as A20.

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 determined 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
Application EPR/BL6403IQ/V006 (variation)	Duly made 21/08/14	Application for new production hall and warehouse facility including an extension to the installation boundary.
Schedule 5 Response	15/09/14	Additional information relating to emissions to sewer.
Variation determined EPR/BL6403IQ/V006	12/11/14	Varied permit issued.
Variation EPR/BL6403IQ/V007	Duly made 18/01/16	Variation application for a new PBC front end process
Request for information	19/05/16	Site plan updated
Schedule 5 dated 26/01/16 Response	31/05/16	Accident Management Plan, Air Emissions Abatement, H1 Risk Assessment, Monitoring and Containment
Request for information response	09/06/16	Confirmation of Accident Management Plan to be in place prior to commissioning.
Request for information	06/07/16	Revised final site plan as utilised in permit schedule 7.
Variation EPR/BL6403IQ/V007 determined	25/07/16	Varied permit issued.
Application EPR/BL6403IQ/V008 (variation)	Duly made 26/01/17	Application to add emission points A19 and A20 to table S3.1 and improvement condition
Additional information received	13/03/17	Confirmation of management plan for carbon beds
Variation determined EPR/BL6403IQ	04/05/17	Varied permit issued.

End of introductory note

Notice of variation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 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 **01761700**

to operate a regulated facility at

Wincham Organic Specialities

Wincham Avenue

Wincham

Northwich

Cheshire

CW9 6GB

to the extent set out in the schedules.

The notice shall take effect from 04/05/2017

Name	Date
Mike Jenkins	04/05/2017

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 S1.3 has been amended to include improvement condition 1.4.9

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
1.4.1	The Operator shall provide the Agency in writing a commissioning report. The report shall include as a minimum:- • Confirmation that the limit values for releases as specified in the conditions of this permit can be met for all activities carried out. • Results of any monitoring carried out. • The results and conclusions of the noise survey carried out as proposed in section B2.9.3.3 of the application. • Details of any situations that arose that resulted in, or had the potential to cause, significant negative environmental impact.	Complete
1.4.2	The Operator shall provide the Agency with an update of the commissioning report (referenced in 1.4.1.1) which shall cover activities not previously reported on.	Complete
1.4.3	The Operator shall provide the Agency in writing a report detailing how the installation meets the indicative BAT requirements for further energy-efficiency requirements as outlined in section 2.7.3 of the Agency Sector Guidance Note IPPC S4.02, or alternatively provide evidence that the installation is a participant to a Climate Change Agreement.	Complete
1.4.4	The Operator shall determine the uncertainty values of the monitoring of the emissions to air for the parameters set out in table 2.2.2 and provide the Agency in writing a report detailing the results and the methodology used for determining them.	Complete
1.4.5	The Operator shall submit a commissioning report for the new reactor system within 3 months of commencing production. The report shall detail normal operating conditions and monitoring results for VOC's to the Methodologies given in Table 2.2	Complete
1.4.6	The Operator shall review the Noise Management Plan implemented under condition 2.9 for the installation. The Noise Management Plan shall include a day and night boundary noise survey to BS4142:1997 within 3 month of start up	Complete
1.4.7	The Operator shall provide the Environment Agency in writing a commissioning report for the IPBC process. The report shall include as a minimum : • Confirmation that the emission levels observed are as indicated in the variation application • Results of any monitoring carried out • The results and conclusions of any noise monitoring carried out • Confirmation that the process operators and maintenance personnel, with duties related to the IPBC process , have received appropriate training and demonstrated competence. • Details of any situations that arose that resulted in or had the potential to cause, significant negative environmental impact.	Complete

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
1.4.8	The Operator shall submit a written report to the Environment Agency on the commissioning of the changes linked to variation EPR/BL6403IQ/V007 in line with pre-operational condition PO1 commissioning protocol.	3 months after completion of commissioning of variation EPR/BL6403IQ/V007 process changes.
1.4.9	The Operator shall provide the Environment Agency with a report to validate conclusions made in the EPR/BL6403IQ/V008 application supporting document Part C3, Q2 regarding Heptane and Methanol emissions from emission point A19 shown in table S3.1 after the introduction of two carbon beds.	3 months after completion of commissioning of variation EPR/BL6403IQ/V008 process changes.

Table S3.1 has been amended to include the additional air emission points A19 and A20. The Emission point references and locations have also been updated.

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	Benzyl Chloride	Production Hall 1 Stack	10mg/m ³	Hourly	6 Months	BS EN13649
A1 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	Formaldehyde	Production Hall 1 Stack	1mg/m ³	Hourly	6 Months	BS EN13649
A1 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	Amines (total as Dimethyl amine)	Production Hall 1 Stack	5mg/m ³	Hourly	6 Months	BS EN13649
A1 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	Ammonia	Production Hall 1 Stack	15mg/m ³	Hourly	6 Months	BS EN 14791
A1 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	Production Hall 1 Stack	75 mg/m ³	Hourly	6 Months	BS EN13649

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
A2 A as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	No parameters set	Steam Boiler	No limit set	-	-	-
A2 B as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	No parameters set	Steam Boiler	No limit set	-	-	-
A3 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	No parameters set	Hot Oil Generator	No limit set	-	-	-
A4 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	Solvent Recovery Condenser Vent	No limits set	-	-	-
A5 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	Methanol Storage Carbon Bed	No limits set	-	-	-
A6 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	Centrifuge Carbon Bed	No limits set	-	-	-
A7 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	Heptane Recovery distillation Vent.	No limits set	-	-	-

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
A8 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	Propargyl Alcohol Storage Vent.	No limits set	-	-	-
A9 A as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	N-Butylamine Storage T-2001 Vent.	No limits set	-	-	-
A9 B as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	N-Butylamine Storage T-2002 Vent.	No limits set	-	-	-
A10A as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	Heptane Recovery Vent	No limits set	-	-	-
A10 B as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	Heptane Recovery Vent	No limits set	-	-	-
A11 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	No parameters set	Carbon Monoxide Generator Unit Flare	No limits set	-	-	-
A12 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	No parameters set	Chlorine Building Emergency Scrubber Vent	No limits set	-	-	-

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
A13 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	No parameters set	Chlorine drum local exhaust ventilation	No limits set	-	-	-
A14 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	Carbonyl Chloride	Process Absorption Scrubber Carbonyl Chloride Generator	No limits set	-	-	-
A15 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	Carbonyl Chloride	Emergency PH4 Building Scrubber	No limits set	-	-	-
A16 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	Carbonyl Chloride	Loop Reactor Scrubber.	No limits set	-	-	-
A17 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	No parameters set	HCl Storage tank vent	No limits set	-	-	-
A18 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	No parameters set	Waste heat boiler	No limits set	-	-	-
A19 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	Centrifuge carbon bed	No limits set	-	-	-

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
A20 as location on 'Proposed Air Emission Locations Rev E' plan dated 26/01/2017 in EPR/BL6403IQ/V008 application.	VOC total Class B (expressed as carbon)	Production Hall 1 Stack	75 mg/m ³	Hourly	6 Months	BS EN13649

Schedule 3 – conditions to be added

None