Notice of variation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Tradebe Fawley Limited

Fawley High Temperature Incinerator

Charlston Road
Hardley
Hythe
Southampton
SO45 3NX

Variation application number

EPR/FP3935KL/V011

Permit number

EPR/FP3935KL

Fawley High Temperature Incinerator
Permit number EPR/FP3935KL

Introductory note

This introductory note does not form a part of the notice

This variation was issued prior to the completion of v10 (Statutory review of permit incorporating the BAT conclusions). V10 will include the changes from this variation and be a FULL CONSOLIDATED permit.

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

The variation application is to move from 100%ile to 97%ile short-term emission limits. This would allow the numerical short-term emission limits specified in IED to be exceeded for 3% of the time.

With reference to NOx limits, the IED ½ hour average limit does not apply to plants that were in operation before 2002 and which operate at less than 6 tonnes per hour.

We have changed to 97%ile limits and removed the ½ hour average NOx limit.

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 permit EPR/FP3935KL (effective permit)		
Description	**Date**	**Comments**
Application ZP3632SR	Duly Made 31/03/2005	
Request for additional air quality monitoring data	Request dated 20/09/2005	Response received 10/11/05. Additional response received 16/11/2005
Request for additional information	Request dated 08/11/2005	Response dated 11/11/2005
Response to request for information Schedule 4	Request dated 14/11/2005	Response dated 22/11/2005 (Part) Response dated 01/12/2005 (Part)
Supplementary Information	23/11/2005	Response received
Request for information by e-mail for information on the mobile scrubber	Request dated 08/12/2005	Response dated 09/12/2005
Permit ZP3632SR determined	21/12/2005	
Variation application EPR/ZP3632SR/V002	14/12/2006	Discharge limits to water
Transfer application EPR/HP3835UZ/T001 permit	Duly Made 05/03/2007	Full transfer of permit EPR/ZP3632SR

Status log of permit EPR/FP3935KL (effective permit)		
Description	**Date**	**Comments**
Transfer determined EPR/HP3835UZ	02/05/2007	Permit transferred from Veolia ES Onyx Ltd to Pyros Environmental Ltd. as permit EPR/HP3835UZ (Consolidation)
Transfer application EPR/FP3935KL/T001	Duly made 15/07/2007	Full transfer of permit EPR/HP3835UZ
Transfer determined EPR/FP3935KL	17/07/2009	Permit transferred from Pyros Environmental Ltd. to Willacy Guinard Holdings Ltd. as permit EPR/FP3935KL
Administrative variation EPR/FP3935KL/V002 issued	24/03/2010	Name change from Willacy Guinard Holdings Ltd. to Tradebe Fawley Ltd.
Variation application EPR/FP3935KL/V003	Duly made 12/08/2011	Key changes include cooling tower, additional effluent stream and extension of installation boundary.
Variation application EPR/FP3935KL/V003 determined	03/10/2011	
Variation application EPR/FP3935KL/V004	Duly Made 20/06/2014	
Variation application operator withdrawn	16/07/2014	Application withdrawn
Variation application EPR/FP3935KL/V005	Duly made 25/07/2014	Application to remove condition 2.1.19 and Schedule 7.
Variation application EPR/FP3935KL/V005 determined	17/10/2014	Conditions 2.1.19 amended, 2.1.20 added, Schedule 7 removed and permit updated in accordance with the IED.
Variation application EPR/FP3935KL/V006	Duly Made 24/02/2015	To add two scheduled waste installation activities to allow the segregation, repackaging and despatch of waste not suitable for incineration.
Variation application EPR/FP3935KL/V006 determined Billing Ref: PP3331WU	14/04/2015	Consolidation
Variation Application EPR/FP3935KL/V007	Duly made 14/02/2018	Application to amend minimum charging temperature and remove/amend outdated/superseded conditions.
Response to Schedule 5 Notice dated 29/03/2018	21/05/2018	Air quality assessment revision
	23/05/2018	Gas trends and site processing availability
	24/05/2018	Confirmation of revised annual tonnage
	25/05/2018	Calculation of uncertainty
Additional information	13/07/2018	Confirmation of ammonia destruction and therefore no measurement.
Response to Schedule 5 Notice dated 23/07/2018	23/07/2018	Air modelling files
	26/07/2018	HF and HCL deposition dispersion assessment information.

Status log of permit EPR/FP3935KL (effective permit)		
Description	**Date**	**Comments**
Variation determined EPR/FP3935KL (Billing Reference KP3433JW)	01/11/2018	Varied permit issued.
Variation application EPR/FP3935KL/V008	Duly made 04/08/2020	To add 3 waste codes, amend unit for oil to water and permit use of processed fuel oil for start-up
Variation application EPR/FP3935KL/V008 determined (PAS billing reference BP3803SJ)	05/11/2020	Varied permit issued
Application EPR/FP3935KL/V009 (Consolidation with EPR/FP3435KW)	Duly made 10/05/2021	Application to consolidate permits EPR/FP3935KL and EPR/FP3435KW, retaining existing conditions, and to vary to surrender permitted activity without land (the incineration of waste in a waste to energy plant, permit reference EPR/FP3435KW). Increase in the permitted limit of sulphur in fuel to 1%.
Consolidation issued. EPR/FP3935KL	08/10/2021	Varied and consolidated permit issued.
Regulation 61 notice issued	08/07/2022	Regulation 61 Notice requiring information for Statutory review of permit. BAT Conclusions published 03 December 2019.
Regulation 61 notice response EPR/FP3935KL/V010	19/01/2023	
Variation EPR/FP3935KL/V010		Variation in determination
Variation application EPR/FP3935KL/V011	Duly made 23/05/2024	Variation to change to 97% ½ hour average limits
Variation issued EPR/FP3935KL/V011	22/07/2024	

Status log of permit EPR/FP3435KW (superseded when consolidated with Permit EPR/FP3935KL)		
Description	**Date**	**Comments**
Transfer application - Issued	17/07/2009	
Agency Variation EPR/FP3435KW/V002 - Issued	18/09/2009	
Agency Variation EPR/FP3435KW/V003 - Issued	03/12/2009	
Administrative variation EPR/FP3435KW/V004 - Received	24/02/2010	
Administrative variation EPR/FP3435KW/V004 - Issued	24/03/2010	

Status log of permit EPR/FP3435KW (superseded when consolidated with Permit EPR/FP3935KL)		
Description	**Date**	**Comments**
Notified of change of registered office address	06/02/2015	Registered office address changed to Atlas House, Third Avenue, Globe Park, Marlow, and Buckinghamshire, SL7 1EY.
Variation issued EPR/FP3435KW/V005	16/02/2015	Varied permit issued to Tradebe Fawley Limited
Application EPR/FP3435KW/V007 (variation and consolidation with EPR/FP3935KL)	Duly made 10/05/2021	Application to consolidate permits EPR/FP3935KL and EPR/FP3435KW, retaining existing conditions, and to vary to surrender permitted activity without land (the incineration of waste in a waste to energy plant, permit reference EPR/FP3435KW).
Variation determined and consolidation issued. EPR/ FP3935KL	08/10/2021	Varied and consolidated 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/FP3935KL

Issued to

Tradebe Fawley Limited ("the operator")

whose registered office is

Atlas House
Third Avenue
Globe Park
Marlow
SL7 1EY

company registration number 02786680

to operate a regulated facility at

Fawley High Temperature Incinerator
Charlston Road
Hardley
Hythe
Southampton
SO45 3NX

to the extent set out in the schedules.

The notice shall take effect from 22/07/2024

Name	Date
Principal Permitting Team Leader	**22/07/2024**

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 2.2.2 is amended as follows:

Table 2.2.2 Emission limits to air and monitoring during normal operation						
Emission point ref. & location	**Source [Refer to table S2.2.1]**	**Parameter**	**Limit (including unit)**	**Reference period[1]**	**Monitoring frequency**	**Monitoring standard or method**
A1	-	Particulate matter	10 mg/m^3	97% of all ½-hr averages over a calendar year	Continuous measurement	BS EN 14181 [6] [8]
A1	-	Particulate matter	10 mg/m^3	daily average	Continuous measurement	BS EN 14181 [6] [8]
A1	-	Particulate matter	30 mg/m^3	periodic over minimum 1-hour period	Bi-annual	BS EN 13284-1[11]
A1	-	Total Organic Carbon (TOC)	10 mg/m^3	97% of all ½-hr averages over a calendar year	Continuous measurement	BS EN 14181 [6] [8]
A1	-	Total Organic Carbon (TOC)	10 mg/m^3	daily average	Continuous measurement	BS EN 14181 [6] [8]
A1	-	Total Organic Carbon (TOC)	20 mg/m^3	periodic over minimum 1-hour period	Bi-annual	BS EN 12619
A1	-	Hydrogen chloride (HCl)	10 mg/m^3	97% of all ½-hr averages over a calendar year	Continuous measurement	BS 14181 [7] [9]
A1	-	Hydrogen chloride (HCl)	10 mg/m^3	daily average	Continuous measurement	BS 14181 [7] [9]
A1	-	Hydrogen chloride (HCl)	60 mg/m^3	periodic over minimum	Bi-annual	BS EN 1911 [11]

Table 2.2.2 Emission limits to air and monitoring during normal operation						
Emission point ref. & location	**Source [Refer to table S2.2.1]**	**Parameter**	**Limit (including unit)**	**Reference period[1]**	**Monitoring frequency**	**Monitoring standard or method**
				1-hour period		
A1	-	Hydrogen fluoride (HF)	1 mg/m^3	periodic over minimum 1-hour period	Bi-annual	BS ISO 15713 [11]
A1	-	Carbon monoxide (CO)	150 mg/m^3	10 minute average [10]	Continuous measurement	BS 14181 [4 8]
A1	-	Carbon monoxide (CO)	50 mg/m^3	daily average	Continuous measurement	BS 14181 [4 8]
A1	-	Carbon monoxide (CO)	100 mg/m^3	periodic over minimum 4 hour period, data to be reported as ½-hour averages	Bi-annual	BS EN 15058 [11]
A1	-	Sulphur dioxide (SO2)	50 mg/m^3	97% of all ½-hr averages over a calendar year	Continuous measurement	BS 14181 [5 8]
A1	-	Sulphur dioxide (SO2)	50 mg/m^3	daily average	Continuous measurement	BS 14181 [5 8]
A1	-	Sulphur dioxide (SO2)	200 mg/m^3	periodic over minimum 4 hour period, data to be reported as ½ hour averages	Bi-annual	BS 14791 [11]
A1	-	Oxides of nitrogen (NO and NO2 expressed as NO2)	350 mg/m^3	daily average	Continuous measurement	BS 14181 [5 8]
A1	-	Oxides of nitrogen (NO and NO2 expressed as NO2)	350 mg/m^3	periodic over minimum 4 hour period, data to be	Bi-annual	BS EN 14792 [11]

Table 2.2.2 Emission limits to air and monitoring during normal operation						
Emission point ref. & location	**Source [Refer to table S2.2.1]**	**Parameter**	**Limit (including unit)**	**Reference period[1]**	**Monitoring frequency**	**Monitoring standard or method**
				reported as ½ hour averages		
A1	-	Cadmium & thallium and their compounds (total) [2]	0.05 mg/m^3	periodic over minimum 30 minute, maximum 8 hour period	Bi-annual	BS EN 14385
A1	-	Mercury and its compounds [2]	0.05 mg/m^3	periodic over minimum 30 minute, maximum 8 hour period	Bi-annual	BS EN 13211
A1	-	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total) [2]	0.5 mg/m^3	periodic over minimum 30 minute, maximum 8 hour period	Bi-annual	BS EN 14385
A1	-	Dioxins / furans (I-TEQ)	0.1 ng/m^3	periodic over minimum 6 hours, maximum 8 hour period [3]	Bi-annual	BS EN 1948 Parts 1, 2 and 3

Note 1: See Section 6 for reference conditions

Note 2: Metals include gaseous, vapour and solid phases as well as their compounds (expressed as the metal or the sum of the metals as specified). Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V mean antimony, arsenic, lead, chromium, cobalt, copper, manganese, nickel and vanadium respectively.

Note 3: The I-TEQ sum of the equivalence factors to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum.

Note 4: The Continuous Emission Monitors used shall be such that the values of the 95% confidence intervals of a single measured result at the daily emission limit value shall not exceed 10%. Valid half-hourly average values shall be determined within the effective operating time (excluding the start-up and shut-down periods) from the measured values after having subtracted this value of the confidence interval (10%). Where it is necessary to calibrate or maintain the monitor and this means that data is not available for a complete half-hour period, the half-hourly average shall nonetheless be considered valid if measurements are available for a minimum of 20 minutes during the half-hour period. (The number of half-hourly averages so validated shall not exceed 8 per day). Daily average values shall be determined as the average of all the valid half-hourly average values within a calendar day. The daily average value will be considered valid if no more than five half-hourly average values in any day have been determined not to be valid. No more than ten daily average values per year shall be determined not to be valid.

Note 5: As Note 4, except that the value of the confidence interval is 20% in place of 10%.

Note 6: As Note 4, except that the value of the confidence interval is 30% in place of 10%.

Note 7: As Note 4, except that the value of the confidence interval is 40% in place of 10%.

Note 8: MCERTS certification to the appropriate ranges and determinands is a demonstration of compliance to the applicable standards.

Table 2.2.2 Emission limits to air and monitoring during normal operation						
Emission point ref. & location	**Source [Refer to table S2.2.1]**	**Parameter**	**Limit (including unit)**	**Reference period[1]**	**Monitoring frequency**	**Monitoring standard or method**

Note 9: The certification range for MCERTS equipment should be 1.5 times the daily emission limit value. The CEM shall also be able to measure instantaneous values over the ranges that are to be expected during all operating conditions. If it is necessary to use more than one range setting of the CEM to achieve this requirement, the CEM shall be verified for monitoring supplementary, higher ranges.

Note 10: 5% of all measurements in a year determined as a 10 minute average shall not exceed the emission limit value.

Note 11: Alternative methods and standards, specified within TGN M2, may be agreed in writing with the Agency if justified)

Table S3 is amended as follows:

Table S3 Reporting Forms		
Media or parameter	**Form number**	**Date of form**
Air: Periodic monitored emissions biannually	Agency Form /HP3835UZ/A1 /March 2007	March 2007
Air: Continuously monitored emissions of particulates	Agency Form /HP3835UZ/A2 /March 2007	March 2007
Air: Continuously monitored emissions of Hydrogen chloride	Agency Form /HP3835UZ/A3 /March 2007	March 2007
Air: Continuously monitored emissions of TOC	Agency Form /HP3835UZ/A4 /March 2007	March 2007
Air: Continuously monitored emissions of carbon monoxide	Agency Form /HP3835UZ/A6 /March 2007	March 2007
Air: Continuously monitored emissions of Sulphur dioxide	Agency Form /HP3835UZ/A7 /March 2007	March 2007
Air: Continuously monitored emissions of Oxides of nitrogen	Agency Form /HP3835UZ/A8 /March 2007	March 2007
Air: Continuously monitored emissions with 97%ile limits	Form Air 9 for other form as agreed in writing with the Environment Agency	July 2024
Water: monitoring data	Agency Form /HP3835UZ/W1 /March 2007	March 2007
Water: monitoring data	Agency Form /HP3835UZ/W2 /March 2007	March 2007
Water: monitoring data	Agency Form /HP3835UZ/W3/March 2007	March 2007
Incinerator slag, Filter Cake Residues, Other solid residues: Composition	Agency Form /HP3835UZ/Ash1 /March 2007	March 2007

Table S3 Reporting Forms		
Media or parameter	**Form number**	**Date of form**
Incinerator slag, Filter Cake Residues, Other solid residues: Solubility	Agency Form /HP3835UZ/Ash2 /March 2007	March 2007
Energy	Agency Form /HP3835UZ/E1 /March 2007	March 2007
Waste Return	Agency Form /HP3835UZ/R1 /March 2007	March 2007
Water usage	Agency Form /HP3835UZ/WU1 /March 2007	March 2007
Performance indicators	Agency Form /HP3835UZ/PI1 /March 2007	March 2007
Auxiliary Burner	Agency Form/ FP3935KL/Auxiliary1/October 2014	October 2014

Schedule 3 – conditions to be added

None