

Notice of variation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Urbaser Environmental Limited

Javelin Park Energy Recovery Facility

Javelin Park

Haresfield

Gloucestershire

GL2 7NQ

Variation application number

EPR/CP3535CK/V005

Permit number

EPR/CP3535CK

Javelin Park Energy Recovery Facility

Permit number EPR/CP3535CK

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.

Javelin Park Energy Recovery Facility is an energy from waste site. This is a minor variation to change short term reference period and emission limit values for carbon monoxide monitoring and reporting from half-hourly averages (100 mg/m³) to 10-minute averages (150 mg/m³).

The schedules specify the changes made to the original permit.

We consider that in reaching our decision to vary the permit we have taken into account all relevant considerations and legal requirements and that the permit will ensure at least an equivalent level of protection to human health and the quality of the environment.

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 EPR/CP3535CK/A001	Duly made 12/04/12	
Additional Information Received	02/07/12	RPS AQ Background Reports
Issue of Notice seeking further information.	17/08/12	Schedule 5 Notice
Additional Information Received	21/09/12	Response to Schedule 5 Notice
Additional Information Received	08/11/12	Updated Greenhouse Gas Assessment
Draft permit EPR/CP3535CK made available for consultation	20/02/13	
Permit EPR/CP3535CK issued	22/05/13	Original permit issued to Urbaser Environmental Limited
Application EPR/CP3535CK/V002 (variation)	Duly made 15/08/13	Application to vary permit to add waste codes.
Variation determined EPR/CP3535CK	29/10/13	Varied permit issued.
Notified of change of registered office address	19/10/15	Registered office address changed to First Floor, Westmoreland House, 80-86 Bath Road, Cheltenham, Gloucestershire, GL53 7JT
Variation issued EPR/CP3535CK/V003	01/12/15	Varied permit issued to Urbaser Environmental Limited

Status log of the permit		
Description	Date	Comments
Variation Application EPR/CP3535CK/V004	Duly made 23/03/18	Application to add an additional discharge point for uncontaminated surface water and amend the stack design and flue gas conditions.
Variation determined EPR/CP3535CK	30/08/18	
Variation Application EPR/CP3535CK/V005	Duly made 17/01/23	Application to change CO short term monitoring conditions.
Variation determined EPR/CP3535CK Billing Ref: AP3749QT	30/01/23	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/CP3535CK

Issued to

Urbaser Environmental Limited (“the operator”)

whose registered office is

**First Floor
Westmoreland House
80-86 Bath Road
Cheltenham
Gloucestershire
GL53 7JT**

company registration number 07888606

to operate a regulated facility at

**Javelin Park Energy Recovery Facility
Javelin Park
Haresfield
Gloucestershire
GL2 7NQ**

to the extent set out in the schedules.

The notice shall take effect from 30/01/2023

Name	Date
Maxine Evans	30/01/2023

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

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

In Schedule 6:

“daily average” for releases of substances to air means the average of valid half-hourly averages over a calendar day during normal operation.

Schedule 2 – conditions to be amended

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

Conditions 3.3.5 (b), (c) and (d) are amended to reflect the new monitoring requirements, the condition 3.3.5 now reads as follows:

- 3.3.5 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in schedule 3 table S3.1 and S3.1(a); the Continuous Emission Monitors shall be used such that;
- (a) the values of the 95% confidence intervals of a single measured result at the daily emission limit value shall not exceed the following percentages of the emission limit values:

• Carbon monoxide	10%
• Sulphur dioxide	20%
• Oxides of nitrogen (NO & NO ₂ expressed as NO ₂)	20%
• Particulate matter	30%
• Total organic carbon (TOC)	30%
• Hydrogen chloride	40%
 - (b) valid half-hourly average values or 10-minute averages shall be determined within the effective operating time (excluding the start-up and shut-down periods) from the measured values after having subtracted the value of the confidence intervals in condition 3.3.5 (a).
 - (c) where it is necessary to calibrate or maintain the monitor and this means that data are not available for a complete half-hour or 10 minute period, the half-hourly average or 10-minute average shall in any case be considered valid if measurements are available for a minimum of 20 minutes or 7 minutes during the half-hour or 10-minute period respectively. The number of half-hourly or 10-minute averages so validated shall not exceed 5 or 15 respectively per day;
 - (d) daily average values shall be calculated as follows:
 - (i) the average of valid half hourly averages or 10 minute averages over calendar day excluding half hourly averages or 10 minute averages during periods of abnormal operation. The daily average value shall be considered valid if no more than five half-hourly average or fifteen 10-minute average values in any day have been determined not to be valid;
 - (e) no more than ten daily average values per year shall be determined not to be valid.

Table S1.2 as referenced in condition 2.3.1 is amended to incorporate documents submitted as part of this variation, the table now reads as follows:

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/CP3535CK/A001	Parts B2 and B3 of the Application Form. The Supporting Information Document including associated Annex sections. Responses to questions 1, 4 and 5 of the Not Duly Made letter.	Duly Made 12/04/12
Response to Information Request Notice issued 17/08/12	Responses to questions 4, 5, 6, 7, 8, 9, 12, 14 and 15.	21/09/12
Variation Application EPR/CP3535CK/V004	Response to questions in Part C2 & C3 of the application form; and supporting document titled 'EP Variation'.	23/03/18
Variation Application EPR/CP3535CK/V005	Section 2 of the documents titled 'Supporting information', covering CO monitoring reference period change from ½ hour average to 10-minute average, with associated changes to ELV's Document reference: S1349-0350-0001SDR Supporting Information	30/08/22

Table S3.1 as referenced in conditions 2.3.6, 2.3.10, 3.1.1, 3.3.1, 3.3.3, 3.3.4, 3.3.5 and table S1.3 is amended to reflect the change in carbon monoxide monitoring reference period and emission limit value, the table now reads as follows:

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A1 - as shown on the Site Plan in Schedule 7	Particulate matter	Incineration exhaust gases via heat recovery boiler and APC plant	30 mg/m ³	½-hr average	Continuous measurement	BS EN 14181
A1 - as shown on the Site Plan in Schedule 7	Particulate matter	Incineration exhaust gases via heat recovery boiler and APC plant	10 mg/m ³	daily average	Continuous measurement	BS EN 14181
A1 - as shown on the Site Plan in Schedule 7	Total Organic Carbon (TOC)	Incineration exhaust gases via heat recovery boiler and APC plant	20 mg/m ³	½-hr average	Continuous measurement	BS EN 14181
A1 - as shown on the Site Plan in Schedule 7	Total Organic Carbon (TOC)	Incineration exhaust gases via heat recovery boiler and APC plant	10 mg/m ³	daily average	Continuous measurement	BS EN 14181
A1 - as shown on the Site Plan in Schedule 7	Hydrogen chloride	Incineration exhaust gases via heat recovery boiler and APC plant	60 mg/m ³	½-hr average	Continuous measurement	BS EN 14181

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A1 - as shown on the Site Plan in Schedule 7	Hydrogen chloride	Incineration exhaust gases via heat recovery boiler and APC plant	10 mg/m ³	daily average	Continuous measurement	BS EN 14181
A1 - as shown on the Site Plan in Schedule 7	Hydrogen fluoride	Incineration exhaust gases via heat recovery boiler and APC plant	2 mg/m ³	periodic over minimum 1-hour period	Quarterly in first year. Then Bi-annual	BS ISO 15713
A1 - as shown on the Site Plan in Schedule 7	Carbon monoxide	Incineration exhaust gases via heat recovery boiler and APC plant	150 mg/m ³	95% of all 10-minute averages in any 24-hour period	Continuous measurement	BS EN 14181
A1 - as shown on the Site Plan in Schedule 7	Carbon monoxide	Incineration exhaust gases via heat recovery boiler and APC plant	50 mg/m ³	daily average	Continuous measurement	BS EN 14181
A1 - as shown on the Site Plan in Schedule 7	Sulphur dioxide	Incineration exhaust gases via heat recovery boiler and APC plant	200 mg/m ³	½-hr average	Continuous measurement	BS EN 14181

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A1 - as shown on the Site Plan in Schedule 7	Sulphur dioxide	Incineration exhaust gases via heat recovery boiler and APC plant	50 mg/m ³	daily average	Continuous measurement	BS EN 14181
A1 - as shown on the Site Plan in Schedule 7	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	Incineration exhaust gases via heat recovery boiler and APC plant	400 mg/m ³	½-hr average	Continuous measurement	BS EN 14181
A1 - as shown on the Site Plan in Schedule 7	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	Incineration exhaust gases via heat recovery boiler and APC plant	200 mg/m ³	daily average	Continuous measurement	BS EN 14181
A1 - as shown on the Site Plan in Schedule 7	Cadmium & thallium and their compounds (total)	Incineration exhaust gases via heat recovery boiler and APC plant	0.05 mg/m ³	periodic over minimum 30 minute, maximum 8 hour period	Quarterly in first year. Then Bi-annual	BS EN 14385
A1 - as shown on the Site Plan in Schedule 7	Mercury and its compounds	Incineration exhaust gases via heat recovery boiler and APC plant	0.05 mg/m ³	periodic over minimum 30 minute, maximum 8 hour period	Quarterly in first year. Then Bi-annual	BS EN 13211

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A1 - as shown on the Site Plan in Schedule 7	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)	Incineration exhaust gases via heat recovery boiler and APC plant	0.5 mg/m ³	periodic over minimum 30 minute, maximum 8 hour period	Quarterly in first year. Then Bi-annual	BS EN 14385
A1 - as shown on the Site Plan in Schedule 7	Ammonia (NH ₃)	Incineration exhaust gases via heat recovery boiler and APC plant	No limit set	daily average	Continuous	BS EN 14181
A1 - as shown on the Site Plan in Schedule 7	Nitrous oxide (N ₂ O)	Incineration exhaust gases via heat recovery boiler and APC plant	No limit set	periodic over minimum 1-hour period	Quarterly in the first year of operation, then bi-annual	BS EN ISO 21258
A1 - as shown on the Site Plan in Schedule 7	Dioxins / furans (I-TEQ)	Incineration exhaust gases via heat recovery boiler and APC plant	0.1 ng/m ³	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then Bi-annual	BS EN 1948 Parts 1, 2 and 3
A1 - as shown on the Site Plan in Schedule 7	Dioxins / furans (WHO-TEQ Humans / Mammals)	Incineration exhaust gases via heat recovery boiler and APC plant	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then Bi-annual	BS EN 1948 Parts 1, 2 and 3

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A1 - as shown on the Site Plan in Schedule 7	Dioxins / furans (WHO-TEQ Fish)	Incineration exhaust gases via heat recovery boiler and APC plant	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then Bi-annual	BS EN 1948 Parts 1, 2 and 3
A1 - as shown on the Site Plan in Schedule 7	Dioxins / furans (WHO-TEQ Birds)	Incineration exhaust gases via heat recovery boiler and APC plant	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then Bi-annual	BS EN 1948 Parts 1, 2 and 3
A1 - as shown on the Site Plan in Schedule 7	Dioxin-like PCBs (WHO-TEQ Humans / Mammals)	Incineration exhaust gases via heat recovery boiler and APC plant	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then Bi-annual	BS EN 1948-4
A1 - as shown on the Site Plan in Schedule 7	Dioxin-like PCBs (WHO-TEQ Fish)	Incineration exhaust gases via heat recovery boiler and APC plant	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then Bi-annual	BS EN 1948-4
A1 - as shown on the Site Plan in Schedule 7	Dioxin-like PCBs (WHO-TEQ Birds)	Incineration exhaust gases via heat recovery boiler and APC plant	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then Bi-annual	BS EN 1948-4

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A1 - as shown on the Site Plan in Schedule 7	Specific individual poly-cyclic aromatic hydrocarbons (PAHs), as specified in Schedule 6.	Incineration exhaust gases via heat recovery boiler and APC plant	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year. Then Bi-annual	BS ISO 11338 Parts 1 and 2.
A2 - IBA Process Building at the eastern end of the building complex	No parameter set	Local exhaust ventilation via filtration system from IBA Processing building	No limit set			

Table S3.1(a) as referenced in conditions 2.3.6, 2.3.10, 3.1.1, 3.3.1, 3.3.4 and in table S1.3 is amended to reflect the change in carbon monoxide monitoring reference period and emission limit value, the table now reads as follows:

Table S3.1(a) Point source emissions to air during abnormal operation of incineration plant – emission limits and monitoring requirements						
Emission point ref. & location [1]	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 - as shown on the Site Plan in Schedule 7	Particulate matter	Incineration exhaust gases via heat recovery boiler and APC plant	150 mg/m ³	½-hr average	Continuous measurement	BS EN 15267-3 during abatement plant failure
A1 - as shown on the Site Plan in Schedule 7	Total Organic Carbon (TOC)	Incineration exhaust gases via heat recovery boiler and APC plant	20 mg/m ³	½-hr average	Continuous measurement	BS EN 15267-3 during abatement plant failure
A1 - as shown on the Site Plan in Schedule 7	Carbon monoxide	Incineration exhaust gases via heat recovery boiler and APC plant	150 mg/m ³	95% of all 10-minute averages in any 24-hour period	Continuous measurement	BS EN 15267-3 during abatement plant failure
Note [1]: Location as described in the Application.						

Schedule 3 – conditions to be added

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

In Schedule 6:

Daily average emissions value means 'the average of at least 43 valid half hourly averages or for CO the average of at least 129 valid 10 min averages'