



**ENVIRONMENT
AGENCY**

Variation Notice with introductory note

Pollution Prevention and Control Regulations 2000

**Integra South East Energy
Recovery Facility
Onyx Hampshire Ltd.
Quartremaine Road
Portsmouth
Hampshire
PO3 5QH**

Variation Notice number

ZP3433LH

Permit number

BJ7107 IS

Introductory note

This introductory note does not form a part of the Variation Notice.

The following Notice is issued under Regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the Regulations) to vary the conditions of a Permit issued under the Regulations to operate an installation.

The Notice comprises Schedule A containing conditions to be deleted, Schedule B conditions to be amended and Schedule C conditions to be added. The Notice is subject to the express conditions set out in Schedules A to C.

The Permit, as amended by this Variation Notice, contains conditions which have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(10) of the PPC Regulations, that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation. Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

Brief description of the changes introduced by this variation notice.

Certain waste incinerators, including the Municipal Waste Incinerator (MWI) to which this permit refers, are now required to operate in accordance with the EC Waste Incineration Directive (WID) (Council Directive 2000/76/EC). In general the affected incinerators have been required to apply for a variation to their existing permit to add or vary conditions to ensure compliance with WID. Although, due to a technicality, the Operator of the Portsmouth ERF to which this permit refers did not have to make a WID variation application the Operator is nevertheless required to Operate the facility in accordance with WID. The permit has therefore been varied to accord with similar installations for which a WID variation has already been issued. Changes made should enhance environmental controls at the installation and therefore have no negative environmental impact.

This variation is therefore made to comply with the requirements of the Waste Incineration (England and Wales) Regulations 2002 (SI 2002 No. 2980) (The WI Regulations) and the Pollution Prevention and Control (Waste Incineration Directive) (England and Wales) Direction 2002, which together implement the requirements of the Waste Incineration Directive (Directive EC 2000/76/EC on the Incineration of Waste (WID)). The Installation regulated under this Permit is an existing Waste Incineration Installation (as defined in the WI Regulations) in which the incineration of waste in an incineration plant is carried out. Conditions delivering the corresponding requirements of the relevant articles of the Waste Incineration Directive have been incorporated into this variation to the Permit.

Permit variation no. ZP3433LH

Effective from 16 December 2005

The opportunity has also been taken to correct certain minor errors in the conditions of the existing permit where appropriate.

The main purpose of the activities at the installation is:- 'incineration of municipal waste (listed activity Schedule 1 s.5.1A(1)(c))

This activity is not affected by this variation other than by the additional controls imposed by the new conditions attached.

Other PPC Permits relating to this installation

Permit holder	Permit Number	Date of Issue
Onyx Hampshire Ltd	BJ7107	1 st June 2004

Superseded Licenses/Consents/Authorisations relating to this installation

Holder	Reference Number	Date of Issue
Onyx Hampshire Ltd.	BF9409	29 th October 1999

Talking to us

If you contact the Agency about this Permit please quote the Permit Number.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) or any other number notified to it to give a notification under condition 5.1.1 of the Permit.

Confidentiality

The Permit and Variation require the Operator to provide information to the Agency. The Agency will place the information onto the public registers in accordance with the requirements of the PPC Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Agency to have such information withheld from the register as provided in the PPC Regulations. To enable the Agency to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations to the permit

This Permit may be varied in the future. The Status Log within the Introductory Note to any such variation will include summary details of the Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made. For the applicant to be successful, they would have to be able to demonstrate to the Agency, in accordance with Regulation 19 of the PPC Regulations, that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 18 of the PPC Regulations. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit. If the Permit authorises the carrying out of a specified waste management activity, then there is a further requirement that the transferee is considered to be a "fit and proper person" to carry out that activity.

Status Log

Detail	Date	Comment
Application	Received 07/11/2003	
Response to request for information	Request dated 27/1/2004	Response received 08/03/2004
Request to extend determination	Request dated 17/3/2004	Request accepted 19/3/2004
Permit BJ7107	Determined 1/6/2004	
Variation ZP3433LH	Determined	16/12/05

End of introductory Note

Permit variation no. ZP3433LH

Effective from 16 December 2005



Variation Notice

Permit number
BJ7107

Variation Notice number
ZP3433LH

The Environment Agency in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I. 2000 No. 1973) (as amended), hereby varies the Permit issued on 1st June 2004 and held by you.

Onyx Hampshire Ltd. ("the Operator"),

whose Registered Office is
Onyx House
154A Pentonville Road
London, N1 9PE

Company registration number 2817856

which relates to the operation of an Installation at
Integra South East Energy Recovery Facility
Quartremaine Road
Portsmouth
Hampshire
PO3 5QH

to the extent set out in Schedules A to C of this Variation Notice.

This Notice shall take effect from 16th December 2005 at 00.01 hours.

A rectangular box containing a handwritten signature in black ink, which appears to read 'Jane Longman'.

Jane Longman

Authorised to sign on behalf of the Environment Agency

Date

14 December 2005

Permit variation number ZP3433LH

Effective from 16 December 2005

SCHEDULE A - CONDITIONS TO BE DELETED

Conditions 2.2.1.5 to 2.2.1.6 inc.

Condition 2.2.1.13

Condition 2.2.6.1

Table 2.3.2

Condition 2.6.9

Interpretation of 'bottom ash' expression in section 6.1.1

Existing Schedule 1

SCHEDULE B - CONDITIONS TO BE AMENDED

Condition 2.2.1.3 shall be amended to read:

The limits for emissions to air for the parameters and emission points set out in Table 2.2.2 shall not be exceeded except during a period of abnormal operation. During a period of abnormal operation, the limits for emissions to air for the parameter(s) and emission point(s) set out in Table 2.2.2(a) shall not be exceeded.

Table 2.2.2 'Emission limits into air' shall be amended as follows:

For emission points A1 and A2

An additional 'periodic' emission limit of 20mg/m³ for particulate matter shall be added.

An additional 'periodic' emission limit of 30mg/m³ for hydrogen chloride shall be added.

The reporting requirements in 'Table S2' and the details that must be provided to the Agency in 'Reporting form S3/A/2' are amended to include the additional monitoring requirements specified above.

Table S2 shall be amended as follows:

a) The following additional reporting parameters shall be added:

Pressure	A1 & A2	As requested by Agency site inspector. See note 1	Period begins 1/12/05
Oxygen content	A1 & A2	As requested by Agency site inspector. See note 1	Period begins 1/12/05
Water vapour content (unless gas is dried before analysis of emissions)	A1 & A2	As requested by Agency site inspector. See note 1	Period begins 1/12/05
Furnace Chamber Temperature	Line 1 & Line 2 Furnace temperature must be recorded for each incineration line separately	As requested by Agency site inspector.	Period begins 1/12/05
Wind Speed and Direction	Site	As requested by Agency site inspector.	Period begins 1/12/05

Note - These parameters would not normally be reported but would be available for inspection at the site. Only where there is an operational need for a report to be made should one be required.

b) Reporting of HF and N₂O shall only be required biannually

Condition 2.2.2.10 shall be amended to read:

'There shall be no emission into sewer from the installation of any substance for which no limit is specified in Table 2.2.5 except in a concentration which is no greater than background. For substances not specified in Table 2.2.5 there shall be no emissions except in a concentration which is no greater than background.'

Condition 2.5.2 shall be amended to read

Only the wastes specified in Table 2.5.2 shall be incinerated in the Permitted Installation subject to the limitations in quantities not exceeding the maximum throughput specified.

TABLE 2.5.2 Permitted waste types		
Description	European Waste Catalogue Number (where available) or other specification	Maximum Throughput
Mixed Municipal Waste	20 03 01	Note 1
Market Waste	20 03 02	Note 1
Street Cleaning Residues	20 03 03	Note 1
Bulky Waste	20 03 07	Note 1
Other Wastes from mechanical treatment of wastes.	19 12 12	Note 1

Note 1: The total annual throughput for all permitted waste types shall not exceed 187,000te and the maximum hourly throughput (At average calorific value 9,200j /kg) shall not exceed 22te/hr

Condition 2.6.5 shall be amended to read:

Unless otherwise agreed, wastes produced by the installation shall be sampled and analysed in accordance with schedule 2. Additional samples shall be taken and tested and appropriate action taken whenever :

- a) disposal or recovery routes change; or
- b) It is suspected that the nature or composition of the waste has changed and the disposal route currently selected may no longer be appropriate

Condition 2.10.1 shall be amended to read:

The Operator shall maintain and implement an emissions monitoring programme which ensures that emissions are monitored from the specified points, for the parameters listed in and to the frequencies and methods described in Tables 2.2.2, 2.2.2(a) 2.2.5, and other relevant sections of this permit unless otherwise agreed in writing, and that the results of such monitoring are assessed. The programme shall ensure that monitoring is carried out under an appropriate range of operating conditions

Condition 2.10.7 shall be amended to read:

'Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme in condition 2.10.1 of this Permit and the environmental or other monitoring specified in condition 2.10.2 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing. Newly installed CEMs, or CEMs replacing existing CEMs, shall have MCERTS certification and have an MCERTS certified range which is not greater than 1.5 times the daily emission limit value (ELV) specified in Table 2.2.2. The CEM shall also be able to measure instantaneous values over the ranges which 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.'

SCHEDULE C - CONDITIONS TO BE ADDED

The following new conditions shall be added:

'Management Techniques and Control'

Condition 2.1.3

Within six months of the issue of this variation shall submit proposals to the Agency with proposals for improving the system to prevent waste feed to the incinerators:

- (a) at start up until the temperature of 850C has been reached
- (b) whenever the temperature of 850C is not maintained
- (c) whenever the continuous measurements required by this permit or variations thereof show that any emission limit value is exceeded due to circumstances or failures of the purification devices

Upon agreement with the Agency the proposals provided in accordance with this condition shall be immediately implemented'

'Abnormal operations'

Condition 2.2.1.14

Waste shall not be charged, or shall cease to be charged, into the incinerator if:

- the combustion chamber temperature is below, or falls below 850°C; or
- any continuous emission limit value in Table 2.2.2(a) is exceeded; or
- any continuous emission limit value in Table 2.2.2 is exceeded, other than under abnormal operating conditions ; or
- monitoring results required to demonstrate compliance with any continuous emission limit value in Table 2.2.2 are unavailable other than under abnormal operating conditions.

Condition 2.2.1.15

The Operator shall operate at least one auxiliary burner in each line of the Permitted Installation at start-up or shut-down or whenever the operating temperature falls below that specified in condition 2.2.1.14, as long as incompletely burned waste is present in the combustion chamber. Unless the temperature specified in condition 2.2.1.14 is maintained in the combustion chamber, such burner(s) may be fed only with fuels which result in emissions no higher than those arising from the use of gas oil, liquefied gas or natural gas.

Condition 2.2.1.16

The Operator shall record the beginning and end of each period of abnormal operation.

Condition 2.2.1.17

During a period of abnormal operation, the Operator shall restore normal operation of the failed equipment or replace the failed equipment as rapidly as possible.

Condition 2.2.1.18

Where, during abnormal operation, any of the following situations arise, the Operator shall, as soon as is practicable, cease the burning of waste until normal operation can be restored:

- continuous measurement shows that an emission exceeds any emission limit value in Table 2.2.2, or continuous emission monitor(s) are out of service, as the case may be, for a total of four hours uninterrupted duration;
- the cumulative duration of abnormal operation periods over one calendar year exceeds 60 hours on an incineration line;
- continuous measurement shows that an emission exceeds any emission limit value in Table 2.2.2 (a);

Condition 2.2.1.19

The Operator shall interpret the end of the period of abnormal operation as the earliest of the following:

- when the failed equipment is repaired and brought back into normal operation;
- when the Operator initiates a shut-down of the waste combustion activity, as described in the Application;
- when a period of 4 hours has elapsed from the start of the abnormal operation;
- when in any calendar year, an aggregated period of 60 hours abnormal operation has been reached for a given incineration line

New Table 2.2.2(a) to be added

Table 2.2.2 (a) : Emission limits to air and monitoring during abnormal operating conditions				
Emission point reference	Parameter	Limit (including Reference Period) ¹	Monitoring frequency	Monitoring method
A1 and A2	Particulate matter	150 mg/m ³ ½-hr average	Continuous measurement	[BS EN 13824-2 ² during abatement plant failure]
A1 and A2	Total Organic Carbon (TOC)	20 mg/m ³ ½-hr average	Continuous measurement	[BS EN 12619 ^{4,2} during abatement plant failure]
A1 and A2	Carbon monoxide	100 mg/m ³ ½-hr average	Continuous measurement	[ISO 12039 ^{4,3} during abatement plant failure]

Note 1: See Section 6 for reference conditions

Note 2: 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 30%. Valid half-hourly average values shall be determined within the effective operating time (excluding the start-up and shut-down periods if no waste is being incinerated) from the measured values after having subtracted this value of the confidence interval (30%). 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 5 per day.

Note 3: As Note 2, except that the value of the confidence interval is 10% in place of 30%.

Note 4: MCERTS certification to the appropriate ranges and determinands is a demonstration of compliance to the applicable standards.'

'On Site Monitoring'

Condition 2.10.11

Where Continuous Emission Monitors are installed to comply with the monitoring requirements in Tables 2.2.2 and 2.2.2a, the Operator shall perform a QAL2 test as specified in BS EN 14181 at least every three years and when there are significant changes to either the process, the fuel used or to the CEMs themselves.

Condition 2.10.12

Where Continuous Emission Monitors are installed to comply with the monitoring requirements in Tables 2.2.2 and 2.2.2a, the Operator shall perform an Annual Surveillance Test (AST) at least annually, as specified within BS EN 14181.

'Notifications'

Condition 5.1.1(f)

any incident which has led to a period of abnormal operation of incineration or co-incineration plant, as defined in section 6.1.1

Condition 5.1.2 (c)

For notification of incidents of abnormal operation under condition 5.1.1 only the information listed in Part C of that schedule

Permit variation number ZP3433LH

Effective from 16 December 2005

The following additional monitoring requirements shall be added to table 2.10

Bottom Ash	Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.	Quarterly ^{2,3}	Sampling and analysis as per Agency ash sampling protocol.
Bottom Ash	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions	Before use of a new disposal or recycling route	Sampling and analysis as per Agency ash sampling protocol.
APC Residues	Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.	Quarterly ^{2,3}	Sampling and analysis as per Agency ash sampling protocol.
APC Residues	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium,	Before use of a new disposal or recycling route	Sampling and analysis as per Agency ash sampling protocol.

Permit variation number ZP3433LH

Effective from 16 December 2005

Copper,
Manganese,
Nickel, Arsenic,
Cobalt, Vanadium,
Zinc) soluble
fractions

Note 1: The 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 2: The reporting requirements in Table S2 of Schedule 2 shall include these additional monitoring parameters at the frequency specified

Section 6.1.1

The following definitions will be added to the list of 'Interpretation' expressions:

"Abnormal operation" means any technically unavoidable stoppages, disturbances, or failures of the abatement plant or the measurement devices, during which the concentrations in the discharges into air and the purified waste water of the regulated substances may exceed the normal emission limit values.

"Bottom Ash" means ash falling through the moving grate or transported by the moving grate

New Schedule 1 'Notification of Abnormal Emissions' as follows:

Schedule 1 - Notification of abnormal emissions

(Including abnormal operations)

This page outlines the information that the Operator must provide to satisfy conditions 5.1.1 and 5.1.2 of this Permit.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the PPC Regulations.

Part A

Permit Number	
Name of Operator	
Location of Installation	
Location of the emission	
Time and date of the emission	

Substance(s) emitted	Media	Best estimate of the quantity or the rate of emission	Time during which the emission took place

Measures taken, or intended to be taken, to stop the emission	
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Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	

Permit variation number ZP3433LH

Effective from 16 December 2005

Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission	
The dates of any unauthorised emissions from the Installation in the preceding 24 months.	

Part C 'Notification of abnormal operation'

Permit Number	
Name of Operator	
Location of Installation	

For multi-line plants, indicate which line(s) was (were) subject to abnormal operation.	
Time at which abnormal operation commenced	
Time at which abnormal operation ceased	
Duration of this incidence of abnormal operation	
Cumulative abnormal operation duration in current year (at end of present incidence)	
Reasons for abnormal operation	
How did the abnormal operation end? (e.g. plant repaired, reaching maximum permitted duration, initiation of shutdown, etc.)	
Where the abnormal operation was caused by the failure of the particulate, CO or TOC CEM, attach a copy of the alternate monitoring data which was used to demonstrate compliance with the abnormal operation emission limit values.	

Where abatement plant has failed, give the half-hourly average emissions for pollutants of relevance during the abnormal operation in the rows below

Pollutant	1 st ½ hour	2 nd ½ hour	3 rd ½ hour	4 th ½ hour	5 th ½ hour	6 th ½ hour	7 th ½ hour	8 th ½ hour

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Integra South East Energy Recovery Facility.