



Mr Matthew Thompson  
Environment Agency  
Chichester Area Office  
Oving Road  
Chichester  
West Sussex  
PO20 2AG

Our reference: PERF-260109-011    Annual Performance Report 2008

26<sup>th</sup> January 2009

Dear Mr. Thompson

**Integra South East Energy Recovery Facility  
IPPC Permit BJ7107IJ, as amended by Variation Notice ZP3433LH**

I enclose an annual performance report for 2008 for Portsmouth ERF, as you are aware this is not a requirement of our IPPC but a group decision has been taken that all sites will produce said report and submit them to the Environment Agency.

If you require any further information, then please do not hesitate to contact me.

Yours sincerely,

A handwritten signature in black ink, appearing to read "C Winterburn".

Charles Winterburn  
Facility Manager

CC: File, C Conway

**Annual performance report for Integra South East ERF**  
**-Permit No. BJ7107IJ Year 2008**

This report is required under the Waste Incineration Directive's Article 12(2):- requirements on access to information and public participation. This requires the operator of an incineration or co-incineration plant to produce an annual report to the regulator on the functioning and monitoring of the plant and to make this available to the public. To satisfy the requirements of the directive, the following information is provided in this report:

1. Introduction.

Name of Company	Veolia Environmental Services UK
Name of Plant	Integra South East ERF
Permit Number	BJ7107IJ
Address	Quartermaine Road Portsmouth Hampshire PO3 5QH
Phone number	02392657700
Further information	All municipal waste that is not recycled arising in Portsmouth City and South East Hampshire Districts are incinerated at this ERF, providing a long term, sustainable solution for waste disposal in the area as part of the integrated approach to waste management within Hampshire, which achieves high levels of recycling and minimal disposal of waste to landfill.

Further copies of this report are available on the web at:  
[www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)

2. Plant description.

The main purpose of the activity carried out at this facility is to incinerate, primarily, Municipal Solid Waste (MSW) as defined by EWC 20 03 01, recovering energy in the form of steam and electricity generating 14MW for export to the National Grid. The permit covers the site and the entire incineration process which includes all incineration lines, waste reception and storage, waste-fuel and air supply systems, boilers, facilities for the treatment of exhaust gases, on-site facilities for handling and storage of residues and operations, recording and monitoring conditions.

3. Summary of plant operation.

This facility consists of two incineration lines, each capable of processing approximately 11 tonnes per hour, allowing for an average refuse throughput of 165,000 tonnes per year, but this is dependent on two factors: actual operating hours and calorific value of the waste being burnt.

Waste Type	EWC
Mixed municipal Waste	20 03 01
Market Waste	20 03 02
Street Cleaning Residues	20 03 03
Bulky Waste	20 03 07
Other Wastes from mechanical treatment of wastes	19 12 12

The average calorific value of general municipal waste is 9200 kJ/kg.

Plant Operational details are included in the table below.

Operating Hours (2 lines)	16382	Hours
Total Waste Incinerated	201569	Tonnes
Electricity Produced	90333	MWh
Metals Recovered	5169	Tonnes
Incinerator Bottom Ash	40520	Tonnes
APC residues	6078	Tonnes

Ash residues (known as Incinerator Bottom Ash or IBA) are currently being recycled and used as an under base graded aggregate for the construction industry.

Ferrous metal removed from the IBA is sent to a steel manufacturer for recycling.

Fine particulate matter, known as Air Pollution Control (APC) residues, removed from the flue gases by the fabric filter is collected and sent to specialised treatment works where it is used to treat spent acid wastes prior to disposal at a licensed land fill site.

#### 4. Summary of plant emissions.

All emissions to air from the two 65m high chimneys are controlled to meet the emission limits included in the PPC Permit. The flue gases released into the atmosphere are continuously monitored for Particulate Matter, TOC, Hydrogen Chloride, Oxides of Nitrogen, Carbon Monoxide, Ammonia and Sulphur Dioxide.

Bi-annual check monitoring of this equipment is carried out by approved contractors using independent extractive sampling methods, at which time emissions of Metals, Dioxins and other substances as listed below are also monitored.

Emission	Monitored
Particulate Matter	Continuously
TOC	Continuously
Hydrogen Chloride	Continuously
Oxides of Nitrogen	Continuously
Carbon Monoxide	Continuously
Sulphur Dioxide	Continuously
Ammonia	Continuously
Hydrogen Fluoride	Bi-annual
Mercury	Quarterly
Arsenic	Quarterly
Cadmium	Quarterly
Chromium	Quarterly
Copper	Quarterly
Nickel	Quarterly
Manganese	Quarterly
Antimony	Quarterly
Lead	Quarterly
Thallium	Quarterly
Dioxins and Furans	Bi-annually
PAH's	Bi-annually
PCB's	Bi-annually

The Continuous Emissions Monitoring equipment (CEMs) was in service during 2008 for 100% of the plant operating time. This equipment is stringently monitored with routine calibration checks and is standardised to BS EN14181:2004.

Half hourly and daily average emission data for continuously monitored emissions is supplied to the Environment Agency on a monthly basis. This information is available to the public. This information can be found at:

[www.hws.co.uk](http://www.hws.co.uk)

Table showing the Annual total for emissions of periodically monitored pollutants

Pollutant	Unit	Annual Total
Hydrogen Fluoride	Kg	81
Mercury	Kg	4.14
Arsenic	Kg	1.8
Cadmium	Kg	0.27
Chromium	Kg	1.27
Copper	Kg	3.67
Nickel	Kg	1.65
Manganese	Kg	1.3
Antimony	Kg	1.32
Lead	Kg	1.55
Thallium	Kg	0.15
Dioxins and Furans	Kg	0.00000993
PAH's	Kg	1.281
PCB's	Kg	0.000004339

Appendix A shows the annual emissions for 2008.

#### 5. Summary of plant compliance.

Strict environmental controls and proven operating experience ensures that the facility is compliant with all conditions of its Pollution Prevention Control (PPC) Permit at all times. This is achieved through constant monitoring of the incineration process during all of the stages, with detailed procedures in place to enable trained staff to carry out their work in an environmentally compliant manner.

During 2008 Integra South East ERF operated within the Permitted Emission Limit Values (ELV) for 100% of operational time, thus no enforcement actions were required by the Environment Agency.

Table of plant compliances.

Breach of Permit Conditions	0
Abnormal Operations	0
Enforcement Actions	0
General Complaints	0

Any complaints received at the facility are thoroughly investigated with a full report being kept as to the outcome of the investigation.

#### 6. Summary of plant improvements.

During the year there have been no plant improvements made at this facility.

7. Summary of information made available:

The operators Veolia Environmental Services UK along with HWS work closely with Portsmouth City Council and Hampshire County Council.

As part of their regulatory responsibility the Environment Agency inspector visits the facility on a regular basis.

Useful web addresses:

[www.veolia.co.uk](http://www.veolia.co.uk)

[www.hws.co.uk](http://www.hws.co.uk)

[www.hants.gov.uk](http://www.hants.gov.uk)

[www.environmental-agency.gov.uk](http://www.environmental-agency.gov.uk)

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Compiled on behalf of the Operator by:

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