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15 APR 2013

Schedule 6 - Notification

These pages outline the information that the operator must provide.

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 EP Regulations.

SEND COMPLETED FORMS TO THE ENVIRONMENT AGENCY VIA:

Fax: 01244 548805

Email: notif.ppcnwales@environment-agency.gov.uk

Part A

Permit Number	BK3638IF
Name of operator	Hydro Aluminium Deeside Ltd
Location of Facility	Wrexham Industrial Estate
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution

To be notified within 24 hours of detection

Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit

To be notified within 24 hours of detection unless otherwise specified below

Emission point reference/ source	A12
Parameter(s)	Particulate
Limit	10 mg/m ³ maximum daily average value
Measured value and uncertainty	35.49 mg/m ³ , as measured by continuous emissions monitor
Date and time of monitoring	00:00 on 14/04/13 to 00:00 on 15/04/13

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Measures taken, or intended to be taken, to stop the emission	Investigation into cause of high readings. Inspection and cleaning of sampling probe. Inspection and clean-out of base of stack.
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Time periods for notification following detection of a breach of a limit	
Parameter	Notification period
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–	–
–	–

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B - to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	Breach of daily average emission limit for particulates on Stack A12 (serving Bag Plant 3). This occurred on Sunday 14th April, with an average reading for that day of 35.49mg/m³. This high daily average result was due to a period of very high readings between 08:00 – 10:00am, ranging from 69.93 to 769.67mg/m³, and a second period of high readings between 17:00 and 18:30, with 15 minute average results peaking at 11.04mg/m³ in this period. Before and after these high readings were experienced, CEM results were in the range normally expected – between 0.16 and 1.63 mg/m³. See Fig.1, below, for a screenshot of the CEM results from this period. The other stacks monitored by the CEM showed continually low results for the same 24 hour period (see Fig.2 & 3 below). The high readings coincided with a period of very strong southerly / south-westerly winds in the Wrexham area – Stack A12 is in the direct path of winds from these directions. The production process was operating normally during this time, and there are no process-related reasons for one stack recording such abnormally high readings. It is therefore concluded that the high readings were a direct result of strong gusts of wind hitting the stack and causing false high readings in the CEM.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	Continued preventative maintenance of stacks, bag plants and monitoring equipment.

	Continued reporting of alarms and investigation into causes of alarms from the CEM.
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	Although high results were recorded by the CEM, it is concluded that these were caused by strong gusts of wind hitting the stack, and that no environmental pollution has been caused.
The dates of any unauthorised emissions from the facility in the preceding 24 months.	04/01/12: Particulate result of 35.18 mg/m ³ reported for emission point A1. Thought to be due to circulation of rust particles within the stack causing a false high reading, following start-up of the plant after an extended shut-down over the Christmas period. 03/06/11: VOC result of 32 mg/m ³ from A1, 12mg/m ³ above ELV. All previous and subsequent results well below ELV.

Name*	Joel Priest
Post	QHSE Manager
Signature	Joel Priest
Date	15/04/13

* authorised to sign on behalf of Hydro Aluminium Limited

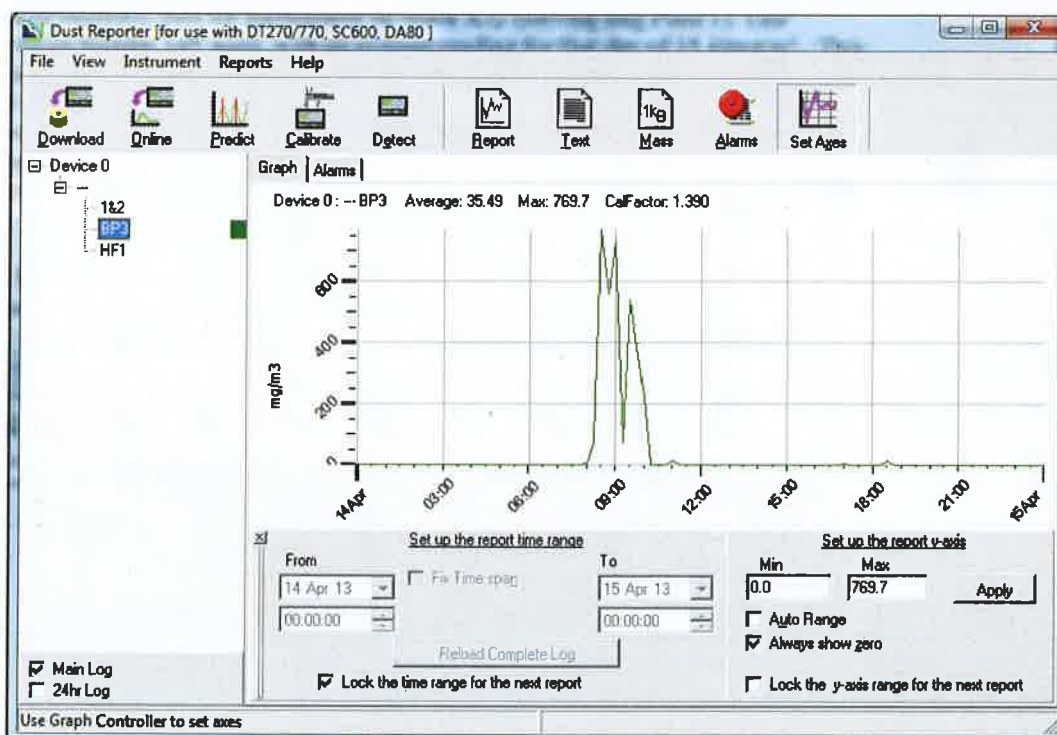


Fig.1, Bag Plant 3 (Stack A12) – CEM recorded a 24 hour average of 35.49mg/m³ and a maximum 15 minute average result of 769.67 mg/m³.

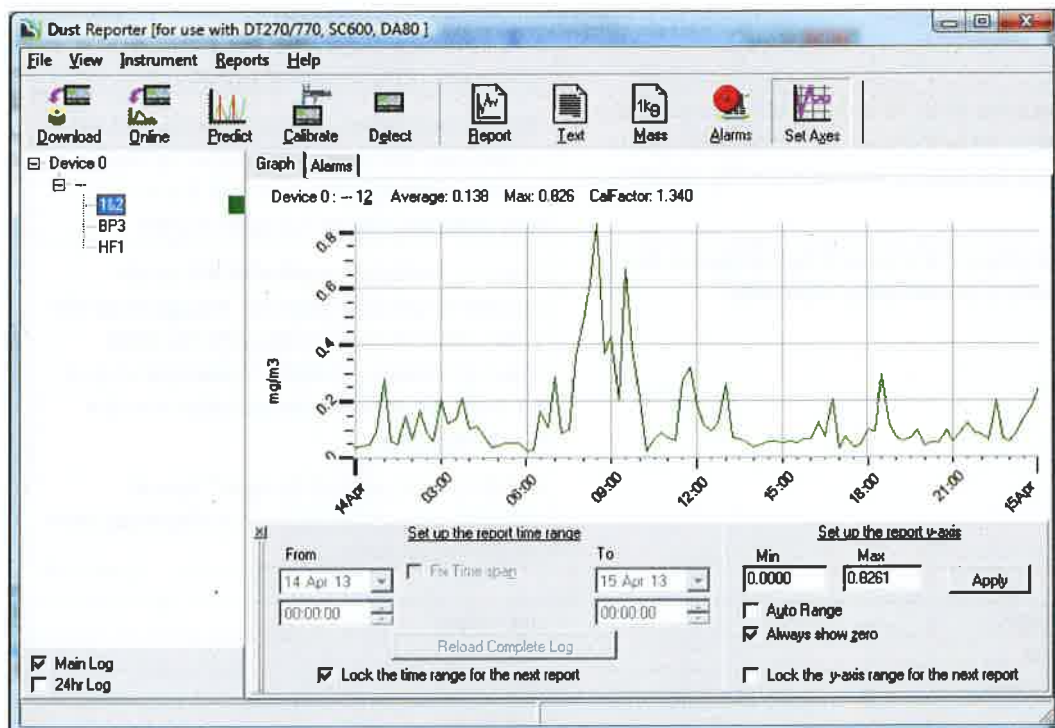


Fig.2, Bag Plant 1&2 (Stack A1) CEM recorded a 24 hour average of 0.138 and a maximum 15 minute average result of 0.826mg/m³.

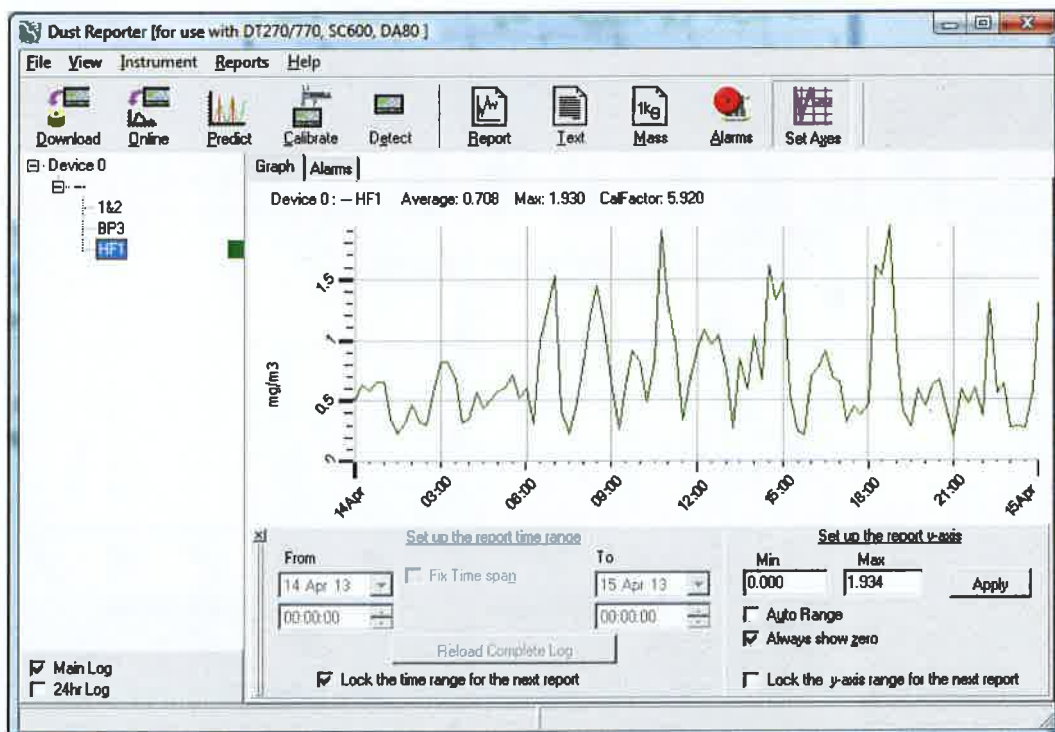


Fig.3, Holding Furnace Stack (A13) – 24hour average of 0.708 and max 15 min result of 1.93mg/m³

Bradford, Julie

From: Joel.Priest@hydro.com
Sent: 15 April 2013 17:55
To: North-wales-ppc
Subject: Hydro Aluminium Deeside - Notification
Attachments: Schedule 6 Notification_A12 particulate_15Apr2013.doc

See attached Schedule 6 Notification detailing high CEM readings for one stack on Sunday 14th April. Initial conclusion is that this was due to strong gusts of wind affecting the probe in the stack.

Kind regards,

Joel Priest
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