



Environmental Permit Appendices

November 2012



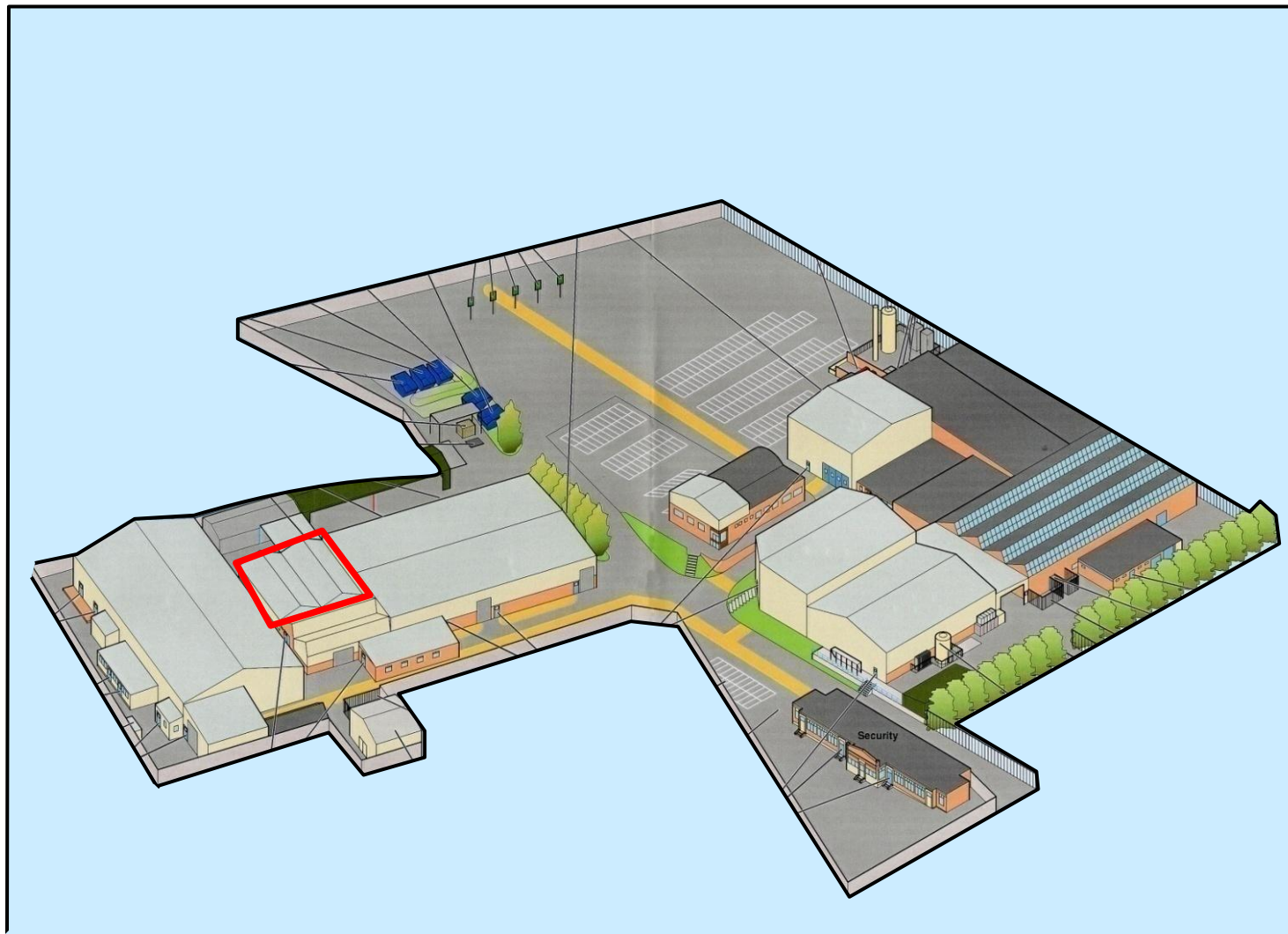
Material Development Facility location – Aerial View



Federal
Mogul

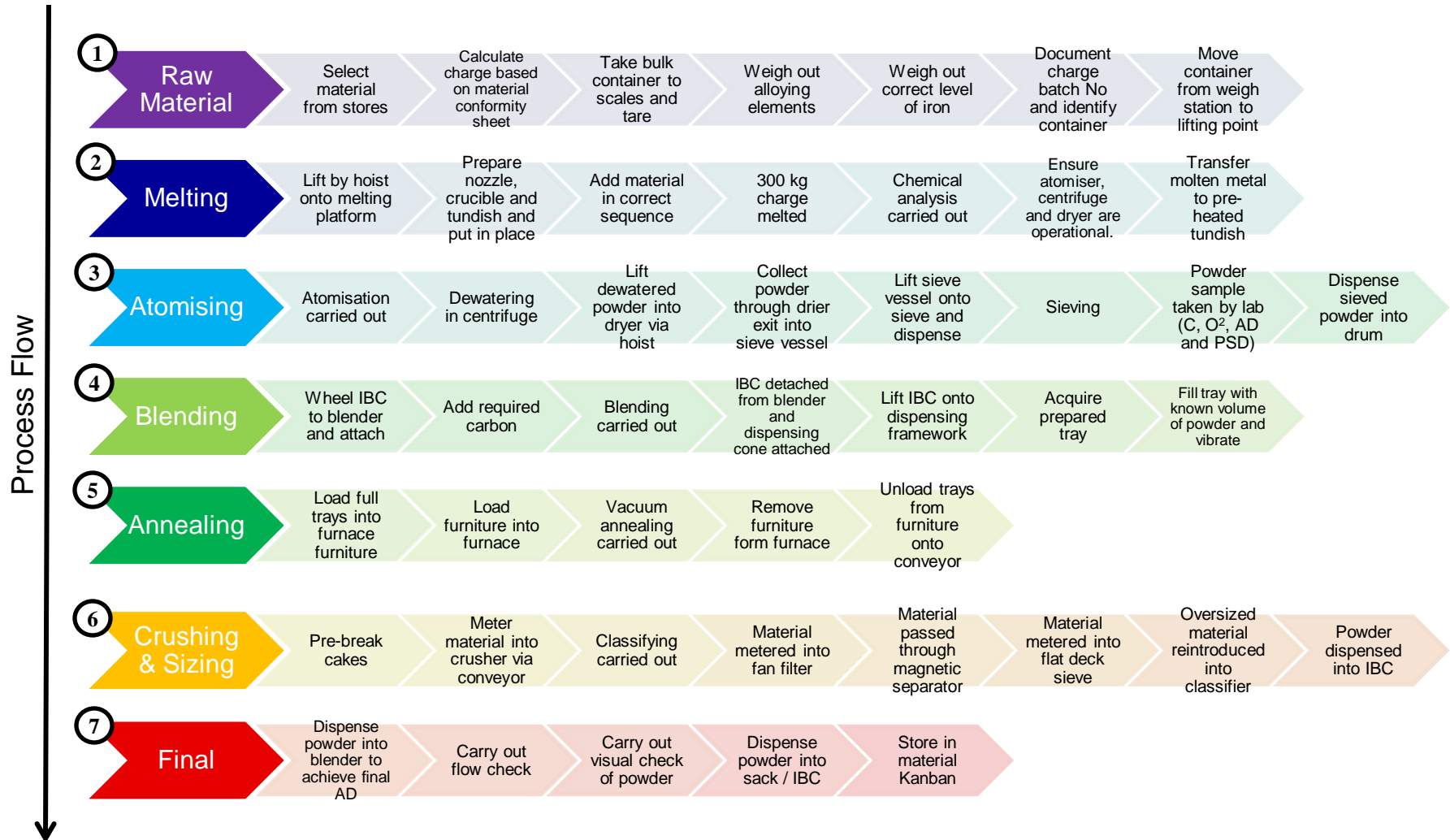
Proposed
location of
installation

Material Development Facility location – Site Schematic

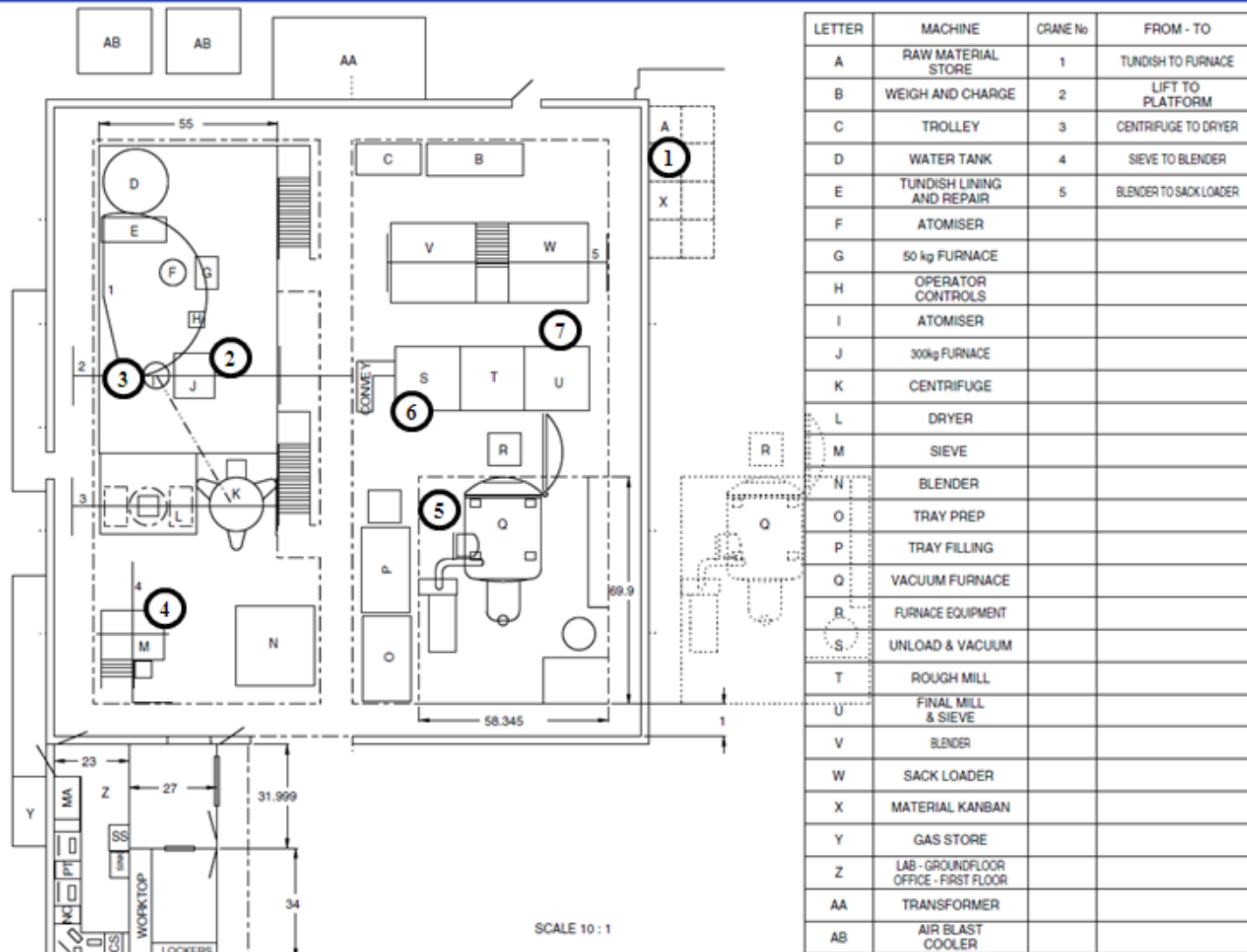


Proposed
location of
installation

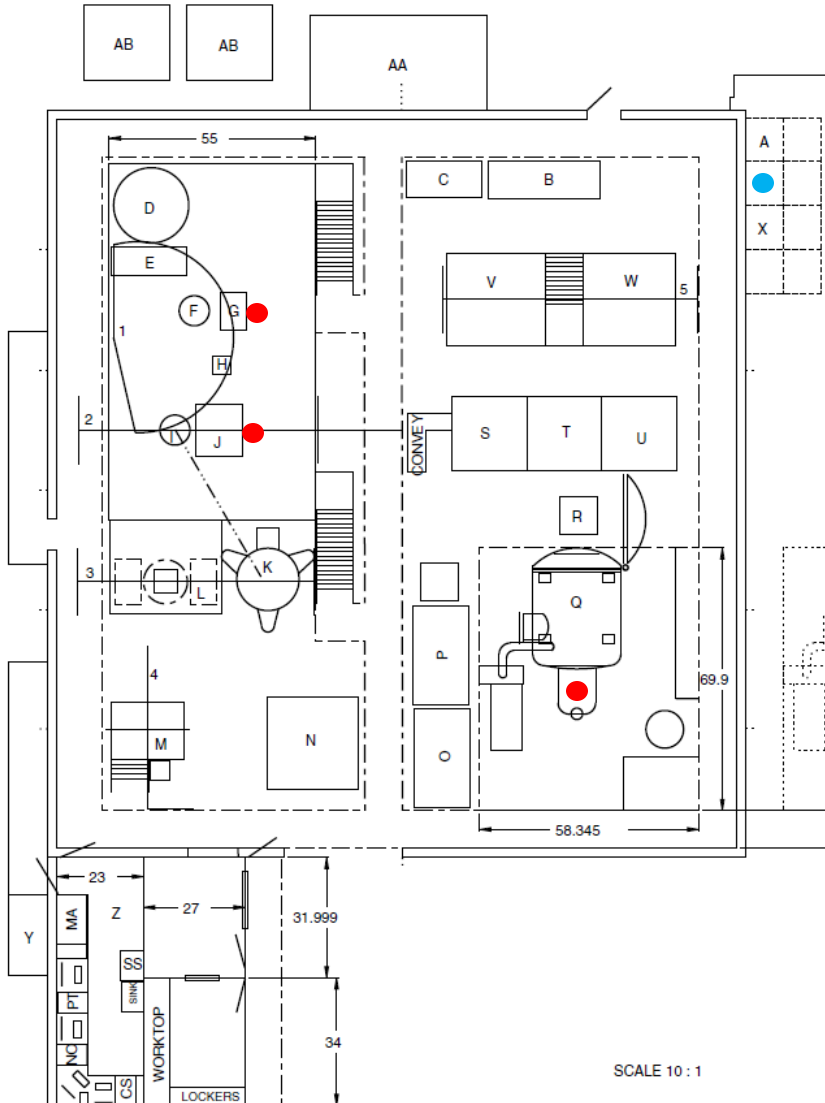
Material Development Facility – Process Flow



Material Development Facility location – Layout Plan



Material Development Facility location – Layout Plan with Chimney locations



LETTER	MACHINE	CRANE No	FROM - TO
A	RAW MATERIAL STORE	1	TUNDISH TO FURNACE
B	WEIGH AND CHARGE	2	LIFT TO PLATFORM
C	TROLLEY	3	CENTRIFUGE TO DRYER
D	WATER TANK	4	SIEVE TO BLENDER
E	TUNDISH LINING AND REPAIR	5	BLENDER TO SACK LOADER
F	ATOMISER		
G	50 kg FURNACE		
H	OPERATOR CONTROLS		
I	ATOMISER		
J	300kg FURNACE		
K	CENTRIFUGE		
L	DRYER		
M	SIEVE		
N	BLENDER		
O	TRAY PREP		
P	TRAY FILLING		
Q	VACUUM FURNACE		
R	FURNACE EQUIPMENT		
S	UNLOAD & VACUUM		
T	ROUGH MILL		
U	FINAL MILL & SIEVE		
V	BLENDER		
W	SACK LOADER		
X	MATERIAL KANBAN		
Y	GAS STORE		
Z	LAB - GROUND FLOOR OFFICE - FIRST FLOOR		
AA	TRANSFORMER		
AB	AIR BLAST COOLER		

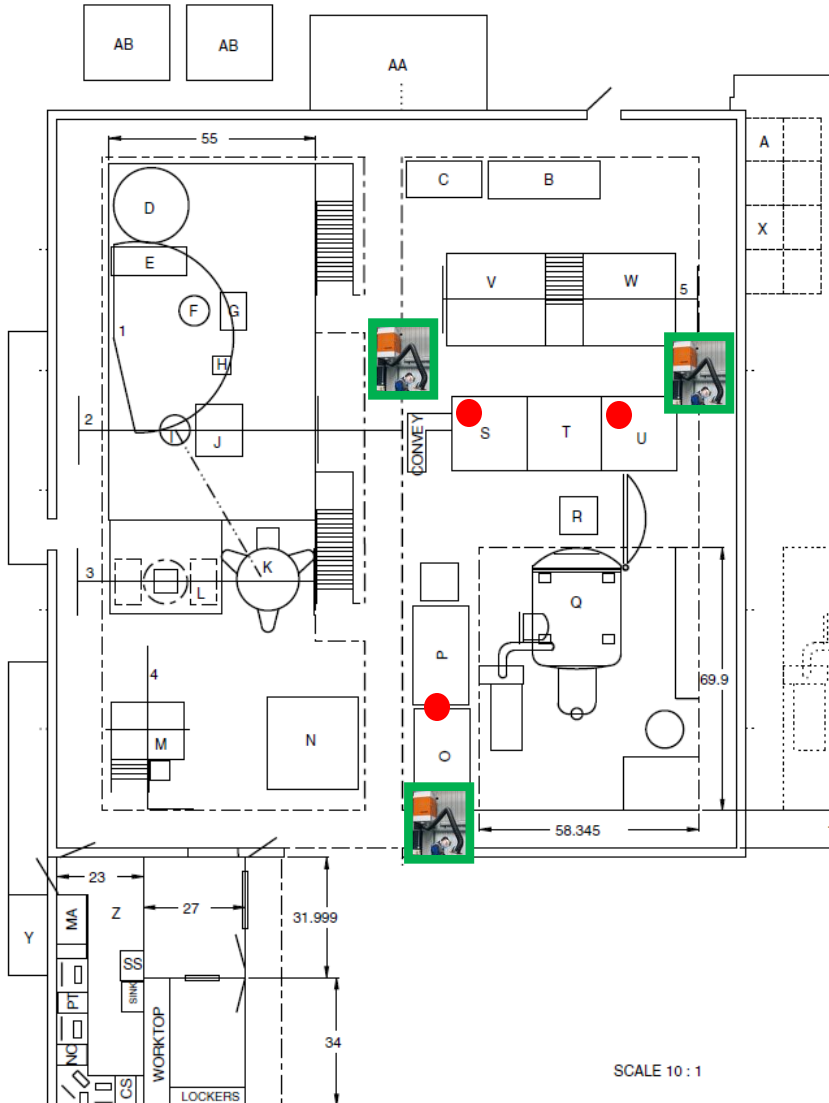
Chimney Locations

External Emission points

Raw Material Store

The indicated external emission points are either overhead or under the machines, with flexible hoses leading out of the building.

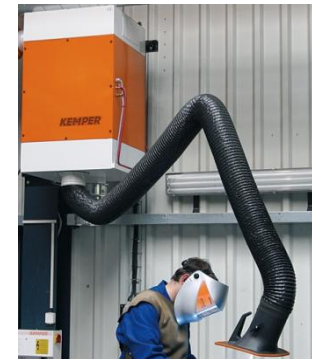
Material Development Facility location – Layout Plan with Dust Prevention measures



LETTER	MACHINE	CRANE No	FROM - TO
A	RAW MATERIAL STORE	1	TUNDISH TO FURNACE
B	WEIGH AND CHARGE	2	LIFT TO PLATFORM
C	TROLLEY	3	CENTRIFUGE TO DRYER
D	WATER TANK	4	SIEVE TO BLENDER
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AB	AIR BLAST COOLER		

Dust escapement

Extraction Point



Raw Material Listing

Material	Main Constituents
Iron Billet	Fe
Iron Flake	Fe
High Carbon Ferro Chrome	Fe, Cr, C
Ferro Tungsten	Fe, W
Ferro Vanadium	Fe, V
Silicon	Si
Ferro Manganese	Fe, Mn
Ferro Molybdenum	Fe, Mo
Carbon	C

Material	Batch	Fe	Al	B	C	Co	Cr	Cu	Mn	Mo	Nb	Ni	O	P & S	Si	Sn	Ti	V	W	Other
Low Carbon Billet	LCB/0008	99.88	0.00	0.00	0.00	0.00	0.01	0.01	0.04	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02
Low %C Iron Punchings	IF/0011	99.97	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Low %C Ferro Manganese	LCFM/0012	4.02	0.00	0.00	0.05	0.00	0.00	0.00	95.56	0.00	0.00	0.00	0.00	0.05	0.33	0.00	0.00	0.00	0.00	0.00
Ferro-Tungsten	FT/0010	19.16	0.00	0.00	0.06	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.07	0.61	0.00	0.00	0.00	79.95	0.00
Ferro-Molybdenum	FM/9369	30.13	0.00	0.00	0.01	0.00	0.00	0.10	0.00	69.40	0.00	0.00	0.00	0.04	0.32	0.00	0.00	0.00	0.00	0.00
Ferro Vanadium	FV/0009	18.93	0.21	0.00	0.20	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.05	0.46	0.00	0.00	79.85	0.00	0.00
High %C Ferro-Chrome	HFC/0003	22.11	0.00	0.00	7.74	0.00	69.58	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.51	0.00	0.00	0.00	0.00	0.00
Silicon	Si/9251	0.39	0.12	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	99.31	0.00	0.00	0.00	0.00	0.11
Carbon	Carbon1	0.00	0.00	0.00	99.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05
Cobalt	Co/9380	0.00	0.00	0.00	0.00	99.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09

Pre-Process Emissions Testing

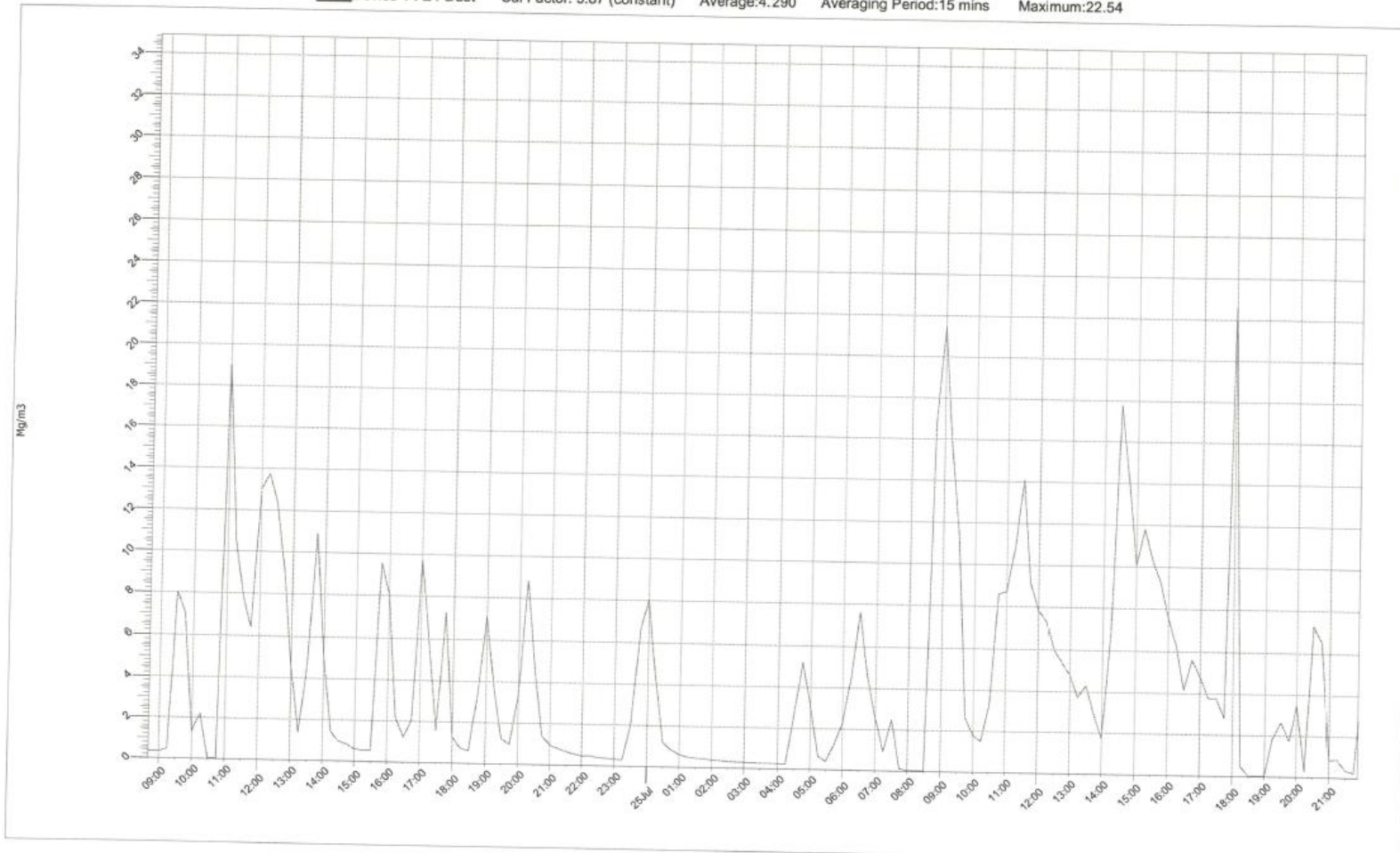
M3 ToolSteel Emission Report July 25th

Company: Ecka Granules MPL (on behalf of Federal mogul) Contact: Chris Wilde

3 Melts 09:00, 11:30 & 14:30

From: 24 Jul 12 08:40:39 To: 25 Jul 12 21:53:13

Device 1: E1 Dust Cal Factor: 3.87 (constant) Average: 4.290 Averaging Period: 15 mins Maximum: 22.54



Pre-Process Emissions Testing -Summary

•The data in summary shows an average of 4.290 mg/m³ and a max value of 22.54 mg/m³

•The table to the right are the constituents of these emissions as a weight% of the original melt

•The guidance say that we must not have more than 5 mg/m³ of Chromium/Nickel/Cobalt

•If we use the maximum emission number of 22.54 and look at the combined chromium/Nickel/Cobalt as a % the number comes out to 1.15 mg/m³

•The figure is in specification and will be confirmed during actual process testing

	%
Carbon	1.1
Oxygen	0.3
Chromium	4
Molybdenum	5.7
Vanadium	3.2
Tungsten	5.8
Cobalt	0.7
Nickel	0.4
Copper	0.2
Manganese	0.4
Silicon	0.5
Sulphur	0.04
Phosphorous	0.03
Others	2
Iron	75.63

Details for Tim Growcott from Halcyon that will carry out emissions testing

tim@halcyon-environmental.co.uk

Office number 01902743673

Waste Management Certificate - AMICO



CERTIFICATE OF REGISTRATION UNDER THE CONTROL OF POLLUTION (AMENDMENT) ACT 1989



Regulation Authority	
Name:	Environment Agency
Address	National Customer Contact Centre 99 Parkway Avenue Sheffield S9 4WF
Tel:	08708 506 506
Fax:	0114 2626697

Advanced Metal Innovation Co. Ltd
The Old Bank
20 High Street
Beighton
Sheffield, S20 1HA

Our ref: NCC/E/ADV009 / EL 160
NCC/058368
Your ref:
Date: 08 April 2010

Dear Steven Winstone,

**The Environmental Permitting (England and Wales) Regulations 2010
Confirmation of Registration**

Site Ref: NCC/058368

Location of the Operation: Old Wagon Works, Rotherham, Beighton, Sheffield, S20 1AH

Following receipt of your submission, we can confirm that we have now registered the operation(s) listed below as exempt under the above Regulations, at the site shown above.

- T6 - Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising (Agricultural and Non Agricultural)
- T8 - Mechanical treatment of end-of-life tyres (Agricultural and Non Agricultural)
- T9 - Recovery of scrap metal (Agricultural and Non Agricultural)
- T10 - Sorting mixed waste (Agricultural and Non Agricultural)
- T14 - Crushing and emptying waste vehicle oil filters (Agricultural and Non Agricultural)

The exemption(s) will remain valid at this site for 3 year from 08/04/2010. We will remind you that the exemption(s) are due for renewal at least one month before this date. You can renew at any time during the month prior to expiry but if you fail to renew during this period, you will have to make a new application.

If your operations change at any time during the registration period and you wish to add or remove exemptions at your site, you can do this by contacting us at enquiries@environment-agency.gov.uk or by calling 08708 506 506.

Although the above operations are now registered they remain so only whilst you operate within the terms and conditions of those exemptions and whilst you do not cause pollution, harm to the human health or detriment to amenity. It is a criminal offence to carry out these

The Environment Agency does not endorse any commercial business so you cannot use our logo on your website or promotional literature. However you can state that you are (licensed, registered, permitted, or authorised) by the Environment Agency, if this is the case, and have a link to our website.

Environment Agency, National Customer Contact Centre, 99 Parkway Avenue, Parkway Business Park, Sheffield, S9 4WF
Customer Services Line: 08708 506 506
Fax: 01142 626 697
Email: enquiries@environment-agency.gov.uk

The following information is hereby certified by the above-mentioned authority to be information which at the date of this certificate is entered in the register which they maintain under regulation 3 of the Controlled Waste (Registration of Carriers and Seizure of Vehicles) Regulations 1991:-

Name(s) of registered carrier:	Advanced Metal Innovation Co.
Registration number:	CB/FN5771ND
Business name (if any):	
Address of registered carrier's principal place of business	Old Wagon Works Rotherham Road, Beighton, Sheffield, S20 1AH
Tel:	0114 2692888
Fax:	0114 2693888
Date of registration:	16/12/2009
Date of expiry of registration:	15/12/2012
Date of which last amendment (if any) was made to the carrier's entry in the register:	17/04/2010



Signature of authorised officer of the regulation authority:



Date: 17/04/2010

68901

Waste Management Certificate - AMICO

**Control of Pollution (Amendment) Act 1989
The Controlled Waste (Registration of Carriers and Seizure of Vehicles) Regulations 1991
The Waste Management Licensing Regulations 1994**

Status: Effective

Registrant Name: Advanced Metal Innovation Co.

Business Name:

Principal Place of Business Address: The Old Bank
20 High Street
Beighton
S20 1HA

Tel: 0114 2693888
Fax: 0114 2692888

Country Incorporated:

Company Registration No: 07029402

Registration/Certificate No: CB/FN5771ND

Registration Date: 18/12/2009

Registration Expiry Date: 15/12/2012

Officer Name	Mr Steven Winstone	Position	Director
Date of birth	01/12/1974		

SHEFFIELD CITY COUNCIL
SCRAP METAL DEALERS ACT 1964



REGISTRATION NUMBER: 1137

The Sheffield City Council hereby registers:

Advanced Metal Innovation Company Limited

under Section 1 of the Scrap Metal Dealers Act 1964, in respect of premises specified below (if any)

NAME: Old Wagon Works

ADDRESS: Rotherham Road
Beighton
Sheffield
S20 1AH

SCRAP METAL STORE(S):

NAME: Old Wagon Works

ADDRESS: Rotherham Road
Beighton
Sheffield
S20 1AH

Date of Registration: 14th December 2009

Date of expiry: 13th December 2012

Date: 14th December 2009

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Frances Woodhead
Director of Legal Services

Licensing General Section, Legal Services, Town Hall, Sheffield S1 2HH. The Licensing General Section is open from 9am to 5pm Monday to Friday, telephone (0114) 273 4264/(0114) 273 4880.