

Summary Report for Burner Efficiency Testing including faults and Repairs 2017
(Permit Ref EPR/BV53861X Variation V004, Tables S3.5 & S4.1)

Emission point A35 Factory No.1 Hydro setting oven lane 1 - Copy of report provided.
Side panels and burner tube supports corroded and planned for replacement.
Ignition probes replaced. Burner efficiency satisfactory.

Emission point A36 Factory No.1 Hydro setting oven lane 2 - Copy of report provided.
Side panels and burner tube supports corroded and planned for replacement.
Ignition probes and air pressure switch tube replaced. Burner efficiency satisfactory.

Emission point A38 Factory No.2 Pellet Caster, Gas Burner Stack No.1 - Copy of report provided.
New spark plug and flame rod installed.
Burner efficiency satisfactory. **Complete.**

Emission point A39 Factory No.2 Pellet Caster, Gas Burner Stack No.2 - Copy of report provided.
Cleaned oil residue from flame and spark rod. Also, a weak pilot light was identified so the gas pressure was increased. Burner efficiency satisfactory. **Complete.**

Emission point A46 Factory No.1 Gas Drying Oven No.1 Burner - Copy of report provided.
No faults identified. Burner efficiency satisfactory. **Complete.**

Emission point A48 Factory No.1 Gas Drying Oven No.2 Burner - Copy of report provided.
No faults identified. Burner efficiency satisfactory. **Complete.**

Emission point A50 Factory No.1 Gas Drying Oven No.3 Burner - Copy of report provided.
No faults identified. Burner efficiency satisfactory. **Complete.**

Emission point A52 Factory No.1 Gas Drying Oven No.9 Burner - Copy of report provided.
Ignition lead re-made into transformer. Burner efficiency satisfactory. **Complete.**

Emission point A54 Factory No.1 Gas Drying Oven No.10 Burner - Copy of report provided.
No faults identified. Burner efficiency satisfactory. **Complete.**

Emission point A57 Factory No.3 South East, Combat Heater No.2 - Copy of report provided.
No faults identified. Burner efficiency satisfactory. **Complete.**

Emission point A62 Factory No.1 Hydro setting oven lanes 3 and 4 - Copy of Report provided.
Burner control box and ignition probe replaced. Burner efficiency satisfactory. **Complete.**

Emission point A63 Factory No.2 Combat Heater No.5 - Copy of Report provided.
Slight wear identified on heat exchanger and will be monitored. Burner efficiency satisfactory.
Complete.

Note:

Due to the characteristics of the equipment listed below, conventional combustion analysers are not suited to the application. They have been excluded from the new permit.

Emission points A10 Factory No.1 Grid Casting Aging Oven No. 1.

Emission points A21 Factory No.1 Grid Casting Aging Oven No. 2.

Emission point A44 Factory No.1 Flash Drying Oven No.2.

Emission point A45 Factory No.1 Flash Drying Oven No.3.

Emission point A61 Factory No.1 Dross Recycling Burner.

The following have been decommissioned therefore, they are not subject to annual testing:-

Emission point A56 Factory No.3 South West, Combat Heater No.1, - Removed and disposed of.

Emission point A58 Factory No.3 North East Combat Heater No.3 - Removed and disposed of.

Emission point A59 Factory No.2 0.85MW_{th} Steam Boiler - No report provided. Removed and disposed of.

Emission point A60 Factory No.2 1.75MW_{th} Steam Boiler - No report provided. Being dismantled.

Emission point A64 Factory No.1 Previously Combat Heater No.5 - Removed and disposed of.

CONDITIONING AND REFRIGERATION ENGINEERS

Folder
LOCATION
16. 11. 2017
Fuel: 13:41:36
CO2cal: Natural Gas 3.0%
CO2max: 11.9%

Folder
LOCATION
16.11.2017 13:30:02
Fuel: Natural Gas
Q2cal: 3.0%
Q2max: 11.9

13.38	% O2
17	ppm CO
20	ppm NO
4.32	% CO2
44.6	% FlueGas Temp
21	ppm NOx
-	hPa Diff. Press 2
-	inbar Draught
-	m/s Velocity
0	m ³ /h Flow
-	kg/h Massflow CO
0.0	m ³ /s Flow
0	ppm SO2
-	kg/h Massflow NOx
-	kg/h Massflow SO2

Heat carrier temp: -1°C

ARR. TIME:

DEP. TIME: 4:38

NORMAL HRS:

TRAVEL HRS:

ABNORMAL HRS:

TRAVEL HRS:

TOTAL HRS:

MILEAGE:

SAT:

SUN:

ENGINEER:

DATE:

VEHICLE REG:

Work Complete?

YES

NO

Separate Report?

YES

NO

CHECK DATE:

Model:

Serial No:

Location:

23833

MATERIALS USED

Order Number	Supplier	Details	£	p
MATERIAL TOTAL				

MATERIALS REQUIRED:

ENGINEER'S
SIGNATURE:

SUMMARY OF CHARGES
(For Office use only)

Normal Hours	@		
Overtime Hours	@		
Mates Hours	@		
Mileage	@		
LABOUR TOTAL			
INVOICE TOTAL			
CLIENT'S SIGNATURE: _____			

Order N°2
Curini

VI. 11 testo 340
61063143 GB

Folder
LOCATION 16.11.2017 13.47.05
Fuel: Natural Gas
CO2cal.: 3.0
CO2max: 11.9%

13.95 % O2
27 ppm CO
17 ppm NO
3.99 % CO2
43.0 °C FlueGas temp
18 ppm NOx
- hPa Diff. Press 2
- mbar Draught
- m/s Velocity
0 m³/h Flow
- kg/h Massflow CO
0.0 m³/s Flow
0 ppm SO2
- kg/h Massflow NOx
- kg/h Massflow SO2
Heat carrier temp.: - °C

PHOENIX

AIRCON LIMITED

HEATING, AIR CONDITIONING AND REFRIGERATION ENGINEERS

A36

ARR. TIME:
DEP. TIME:
NORMAL HRS:
TRAVEL HRS:
ABNORMAL HRS:
TRAVEL HRS:
TOTAL HRS:
MILEAGE:

SAT:		SUN:	
ENGINEER:			
DATE:			
VEHICLE REG:			
Work Complete?	YES	NO	
Separate Report?	YES	NO	
CHECK DATE:			

REPORT:

Model:
Serial No:
Location:

24072

MATERIALS USED

Order Number	Supplier	Details	£	p
MATERIAL TOTAL				

MATERIALS REQUIRED:

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
ENGINEER'S SIGNATURE:

SUMMARY OF CHARGES (For Office use only)

	£	p
Normal Hours @		
Overtime Hours @		
Mates Hours @		
Mileage @		
LABOUR TOTAL		
INVOICE TOTAL		
CLIENT'S SIGNATURE:		

A38

Burners Ltd



state | Fens Pool Avenue | Brierley Hill | West Midlands | DY5 1QA
62358 | Email: sales@burnerservices.co.uk | www.burnerservices.co.uk

SERVICE REPORT

/ 12144

testo 327-1
V1.18 01724281/GB

27.10.2017 08:23:23

Fuel Nat Gas
O2ref. 3.0 %
CO2max 11.3 %

Flue gas

233.8 °C FlueGas temp
3.40 % CO2
0 ppm CO
0.0000 ratio
15.0 % O2
72.9 % Effnet
66.3 % Effgross
0 ppm Ambient CO
--- °C T1 temp.
--- °C T2 temp.
22.0 °C Diff. temp.

NT

CLIENTS ORDER No.

CONTACT

Gwyn / Scott

TEL No.

RESERVATION AS TO TITLE:

The ownership of the goods shall not pass to the customer until full payment of the purchase price but the risk shall pass upon delivery.
The benefit and/or proceeds of any dealings with goods by the customer in contravention of the above reservation of property rights shall be held in trust for us. All contracts and orders are subject to our standard conditions of sale of which copies will be forwarded on application.
Claims for loss or damage must be notified within 3 days. Liability is restricted to the exchange of faulty or damaged goods.

Brierley UK

IND EST

ROD FMP 10

ROD FMP 10

H Temp. --- °C

WED	THUR	FRI	SAT	SUN	DAY	MON	TUE	WED	THUR	FRI	SAT	SUN
		27/10/17			DATE							
					OVERTIME							

testo 327-1
V1.18 01724281/GB

27.10.2017 08:24:57

Fuel Nat Gas
O2ref. 3.0 %
CO2max 11.3 %

Flue gas

237.3 °C FlueGas temp
3.32 % CO2
0 ppm CO
0.0000 ratio
15.1 % O2
71.9 % Effnet
65.4 % Effgross
0 ppm Ambient CO
--- °C T1 temp.
--- °C T2 temp.
--- °C Diff. temp.
22.1 °C Ambient temp
--- mbar Diff. Press.
--- mbar Draught

C Temp. --- °C

SITE REPORT

TO SITE, HT NEW SPARK AND HAVE
BURNER AND RUN AND TEST.

of burner (checked) out out set Results
customer and another kept for

Pellet Cook No 1

The signatures below on behalf of the customer and the Company confirm that the particulars recorded in this report are correct throughout and duly / approved on behalf of both parties and that the work referred to in the report has been completed to the full satisfaction of the customer

ENG' SIGNATURE

PRINT NAME

S JENONS.

CUSTOMER SIGNATURE

PRINT NAME

SCOTT GRIFFITHS

WHITE - CUSTOMER COPY GREEN - ACCOUNT COPY YELLOW - ENGINEER COPY

Installer Ref No:

PLANT COMM RECORD

RVICING TIC)



To confirm the validity of the gas operative

V1.11 tests 340 61063143 61

ster on Tel: 0800 408 5500

Registered Business: Tremorfa Ltd
 Address: Terrace Suite
41-42 Mellon Hotel
Cardiff
 Postcode: _____
 Tel No: _____

Job address:
 Name: Ynasa Battery
 Address: Rossau Ind Estate
Chinu Vale
 Postcode: _____ Tel No: _____
 Received by (signature): _____

Folder LOCATION 16.11.2017 15:29:26
 Fuel: Natural Gas
 O2cal: 3.0%
 CO2max: 11.9%
 3.12 % O2
 252 ppm CO
 57 ppm NO
 10.11 % CO2
 749.8 °C FlueGas Temp
 60 ppm NOx
 hPa Diff. Press: 2
 mbar Draught
 m/s Velocity
 m³/h Flow
 kg/h MassFlow CO
 m³/s Flow
 4 ppm SO2
 kg/h MassFlow NOx
 kg/h MassFlow SO2

Heat carrier temp: _____ °C

38% A39

192725
 3366284
 17-11-17
 J. HEALEY
 ENGINEER
 Tel No: _____

Appliance details	RDM - No. 1 ^{aging oven}	RDM - No. 2 ^{aging oven}	No. 3
Location:	Factory 1	Factory	Factory 2
Model:	Drying oven	Drying oven	Pellet Carver
Serial No:	Landmark	Landmark	ACE
Burner manufacturer (if different):	FDSC (60) N-3	FDSC (60) N-3	VJISE 12T
Flue type:	Flueless	Flueless	Flueless

Combustion checks	No.1		No.2		No.3	
Appliance No.	Low	High	Low	High	Low	High
Firing mode						
Heat input rating (kW)		160		120		340
Gas burner pressure (mbar)		2.3		2.1		1.3
Gas rate (m³/hr)		—		—		—
Air/gas ratio control setting		—		—		—
Ambient (room) temperature (°C)		—		—		—
Flue gas temperature (°C)		—		—		—
Flue gas temperature net (°C)		—		—		—
Flue draught pressure (mbar)		—		—		—
Oxygen (O₂) %		—		—		—
Carbon Monoxide (CO) ppm		—		—		—
Carbon Dioxide (CO₂) %		—		—		—
NOx %		—		—		—
Excess air %		—		—		—
CO/CO₂ - Ratio		—		—		—
Gross efficiency %		—		—		—
CO flue dilution ppm		—		—		—

Additional checks (Yes/No/NA)	No.1	No.2	No.3
Flue flow test satisfactory?	N/A	N/A	N/A
Spillage test satisfactory?	N/A	N/A	N/A
Ventilation satisfactory (see also Ventilation type)?	Y	Y	Y
Air/gas pressure switch operating correctly?	Y	Y	Y
Flame proving/safety devices operating correctly?	Y	Y	Y
Burner lock-out time (seconds)	10	10	10
Temperature and limit thermostats operating correctly?	Y	Y	Y
Appliance serviced?	Y	Y	Y

Safety Information (Yes/No)	
Has a Warning/Advice Notice been raised?	NO
Have warning labels been attached?	Y
Has responsible person been advised?	Y

General safety checks (Yes/No/NA)	
Gas booster(s)/compressor(s) operating correctly?	Y
Gas installation tightness test carried out (if Yes, see separate form)?	Y
Gas installation pipework adequately supported?	Y
Gas installation pipework sleeved/labelled/painted as necessary?	Y
Chimney system installed in accordance with appropriate standards?	N/A
Chimney outlet termination(s) satisfactory?	N/A
Fan-flue interlock operating correctly?	N/A

Ventilation type - Natural (go to item 1.) Mechanical (go to item 2.)	
1. Room/boiler room/enclosure low-level free area (cm²)	
high-level free area (cm²)	
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)	Yes
2. Mechanical ventilation flow rate inlet (m³/s)	
extract (m³/s)	
Mechanical ventilation interlock operating correctly?	
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)	

Details of work carried out	
Annual service	
* Flueless on burner end to get combustion reading on all 3 appliances	

Details of remedial work required	
On next service check moisture (oil) in gas train and burner head as found also in Probe areas - cleaned and etc.	

DECLARATION OF GAS SAFETY - I confirm that all of the above work described on this form has been satisfactorily completed in accordance with the current Gas Safety (Installation and Use) Regulations, standards and procedures.

Gas operative's signature _____

Key: Top Copy - Responsible person. Second Copy - Gas Operative

* Refer to separate Warning/Advice Notice

To re-order quote Ref. CP15

SSI

NG



VO

base c

: 0800 408 5500

DRYER NO1
A46

VI. 11 test 340
61063143-GI

Folder LOCATION
16.11.2017 15:52:21
Fuel: Natural Gas
O2cal: 3.0%
CO2max: 11.9%

4.91 % O2
4 ppm CO
50 ppm NO
9.12 % CO2
170.9 °C FlueGas temp
52 ppm NOx
- mbar Draught
- m/s Velocity
0 m³/h Flow
0 kg/h Massflow CO
0 m³/s Flow
0 ppm SO2
- kg/h Massflow NOx
- kg/h Massflow SO2

Heat carrier temp: - °C

78.4%

firm th

VI. 11 test 340
61063143-GI

Folder LOCATION
16.11.2017 15:58:33
Fuel: Natural Gas
O2cal: 3.0%
CO2max: 11.9%

9.31 % O2
1081 ppm CO
2 ppm NO
6.54 % CO2
168.5 °C FlueGas temp
5 ppm NOx
- mbar Draught
- m/s Velocity
0 m³/h Flow
0 kg/h Massflow CO
0 m³/s Flow
0 ppm SO2
- kg/h Massflow NOx
- kg/h Massflow SO2

Heat carrier temp: - °C

75.1

DRYER NO3
A50

VI. 11 test 340
61063143-GI

Folder LOCATION
16.11.2017 16:01:24
Fuel: Natural Gas
O2cal: 3.0%
CO2max: 11.9%

3.86 % O2
4 ppm CO
54 ppm NO
9.71 % CO2
181.6 °C FlueGas temp
57 ppm NOx
- mbar Draught
- m/s Velocity
0 m³/h Flow
0 kg/h Massflow CO
0 m³/s Flow
0 ppm SO2
- kg/h Massflow NOx
- kg/h Massflow SO2

Heat carrier temp: - °C

78%

2725

366284

11-17

HEALEY

NOVEMBER

Tel No:

Appliance details

Location: Factory 1
Drying oven
Model: Whitwind
Serial No: WM 65
Burner manufacturer (if different):
Flue type: Fan forced

Gray No. 2

Gray No. 3

Combustion checks

Appliance No.	No.1		No.2		No.3	
Firing mode	Low	High	Low	High	Low	High
Heat input rating (kW)		205		205		205
Gas burner pressure (mbar)		3.2		2.9		3.3
Gas rate (m³/hr)		-		-		-
Air/gas ratio control setting		-		-		-
Ambient (room) temperature (°C)		16.8		16.8		16.8
Flue gas temperature (°C)		206.1		198.7		212.9
Flue gas temperature net (°C)		160.5		157.3		163.7
Flue draught pressure (mbar)		-		-		-
Oxygen (O₂) %		14.3		13.8		14.5
Carbon Monoxide (CO) ppm		63		72		58
Carbon Dioxide (CO₂) %		3.3		3.9		3.2
NOx %		-		-		-
Excess air %		80.1		93.6		83.4
CO/CO₂ - Ratio		1.303		0.203		0.203
Gross efficiency %		87.0		86.3		87.1
CO flue dilution ppm		-		-		-

Additional checks (Yes/No/NA)

	No.1	No.2	No.3
Flue flow test satisfactory?	Y	Y	Y
Spillage test satisfactory?	NA	NA	NA
Ventilation satisfactory (see also Ventilation type)?	Y	Y	Y
Air/gas pressure switch operating correctly?	Y	Y	Y
Flame proving/safety devices operating correctly?	Y	Y	Y
Burner lock-out time (seconds)	10	10	10
Temperature and limit thermostats operating correctly?	Y	Y	Y
Appliance serviced?	Y	Y	Y

Safety Information (Yes/No)

Has a Warning/Advice Notice been raised?	Yes
Have warning labels been attached?	Yes
Has responsible person been advised?	Yes

General safety checks (Yes/No/NA)

Gas booster(s)/compressor(s) operating correctly?	Y
Gas installation tightness test carried out (if Yes, see separate form)?	Y
Gas installation pipework adequately supported?	Y
Gas installation pipework sleeved/labelled/painted as necessary?	Y
Chimney system installed in accordance with appropriate standards?	Y
Chimney outlet termination(s) satisfactory?	Y
Fan-flue interlock operating correctly?	Y

Ventilation type - Natural (go to item 1.) Mechanical (go to item 2.)

1. Room/boiler room/enclosure	low-level free area (cm²)	
	high-level free area (cm²)	
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)		Yes
2. Mechanical ventilation flow rate	inlet (m³/s)	
	extract (m³/s)	
Mechanical ventilation interlock operating correctly?		
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)		

Details of work carried out

Annual Service

Details of remedial work required

None

DECLARATION OF GAS SAFETY - I confirm that all of the above work described on this form has been satisfactorily completed in accordance with the current Gas Safety (Installation and Use) Regulations, standards and procedures.

Gas operative's signature

COMMISSIONING/SERVICING RD (NON-DOMESTIC)



For further information or to book a service please contact Gas Safe Register on Tel: 0800 408 5500

DRYER 9
VI, 11 test: 340
61063143 GB
Folder LOCATION
16.11.2017 15:48:04
Fuel: Natural Gas
O2real: 3.0%
CO2max: 11.9%

4.33 % O2
1 ppm CO
54 ppm NO
9.45 % CO2
216.9 °C FlueGas temp
57 ppm NOx
197.5 hPa Diff. Press. 2
0 mbar Draught
0 m/s Velocity
0 m³/h Flow
0 kg/h MassFlow CO
0 m³/s Flow
0 ppm SO2
0 kg/h MassFlow NOx
0 kg/h MassFlow SO2

Heat carrier temp.: °C

A52

DRYER 10
VI, 11 test: 340
61063143 GB
Folder LOCATION
16.11.2017 15:45:35
Fuel: Natural Gas
O2real: 3.0%
CO2max: 11.9%

5.31 % O2
1 ppm CO
56 ppm NO
8.89 % CO2
197.5 °C FlueGas temp
59 ppm NOx
197.5 hPa Diff. Press. 2
0 mbar Draught
0 m/s Velocity
0 m³/h Flow
0 kg/h MassFlow CO
0 m³/s Flow
0 ppm SO2
0 kg/h MassFlow NOx
0 kg/h MassFlow SO2

Heat carrier temp.: °C

A54

Registration No: 197721
Operative licence No: 3366284
Date: 17-11-17
Print Name: J. HEALEY
Position held: ENGINEER

Client details if different:

Name: _____
Address: _____
Postcode: _____ Tel No: _____

Location:	Gray No. 9	Gray No. 10	No. 3
Model:	Factory 1	Factory 1	
Serial No:	Drying oven	Drying oven	
Burner manufacturer (if different):	Whirlwind	Whirlwind	
Flue type:	WM 65	WM 65	
	Fan Forced	Fan Forced	

Combustion checks

Appliance No.	No.1		No.2		No.3	
Firing mode	Low	High	Low	High	Low	High
Heat input rating (kW)		208		225		
Gas burner pressure (mbar)		3.6		3.6		
Gas rate (m³/hr)		—		—		
Air/gas ratio control setting		—		—		
Ambient (room) temperature (°C)		16.8		16.8		
Flue gas temperature (°C)		268.3		235.0		
Flue gas temperature net (°C)		222.1		197.4		
Flue draught pressure (mbar)		—		—		
Oxygen (O₂) %		16.0		13.8		
Carbon Monoxide (CO) ppm		76		75		
Carbon Dioxide (CO₂) %		3.1		3.6		
NOx %		—		—		
Excess air %		82.2		70.1		
CO/CO₂ - Ratio		220.3		220.3		
Gross efficiency %		83.0		82.9		
CO flue dilution ppm		—		—		

Additional checks (Yes/No/NA)

	No.1	No.2	No.3
Flue flow test satisfactory?	Y	Y	
Spillage test satisfactory?	NA	NA	
Ventilation satisfactory (see also Ventilation type)?	Y	Y	
Air/gas pressure switch operating correctly?	Y	Y	
Flame proving/safety devices operating correctly?	Y	Y	
Burner lock-out time (seconds)	10	10	
Temperature and limit thermostats operating correctly?	Y	Y	
Appliance serviced?	Y	Y	

Safety Information (Yes/No)

Has a Warning/Advice Notice been raised?	NO	Y
Have warning labels been attached?	Y	
Has responsible person been advised?	Y	

General safety checks (Yes/No/NA)

Gas booster(s)/compressor(s) operating correctly?	
Gas installation tightness test carried out (if Yes, see separate form)?	
Gas installation pipework adequately supported?	
Gas installation pipework sleeved/labelled/painted as necessary?	
Chimney system installed in accordance with appropriate standards?	
Chimney outlet termination(s) satisfactory?	
Fan-flue interlock operating correctly?	

Ventilation type - Natural (go to item 1.) Mechanical (go to item 2.)

1. Room/boiler room/enclosure	low-level free area (cm²)
	high-level free area (cm²)
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)	
2. Mechanical ventilation flow rate	inlet (m³/s)
	extract (m³/s)
Mechanical ventilation interlock operating correctly?	
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)	

Details of work carried out

Annual Service	

Details of remedial work required

I had to remake ignition lead into ignition transformer, if issue again replace lead (Boiler 9)	

DECLARATION OF GAS SAFETY - I confirm that all of the above work described on this form has been satisfactorily completed in accordance with the current Gas Safety (Installation and Use) Regulations, standards and procedures.

Gas operative's signature: _____

455 W 1.868

YOUR COMPANY NAME &
PHONE NUMBER HERE

SERIAL NO. 1818122827

DATE 27/10/17
TIME 04:44:33

COMBUSTION

FUEL NAT GAS

O ₂ %	8.7
CO ₂ %	6.9
CO ppm	35
FLUE °C	329.4
INLET °C	15.2
NETT °C	314.2
EFF (C)	82.4
LOSSES	17.6
AIR %	71.3

Cal. due on 06/07/18

CO/CO₂ 0.0005

PRS mbar 0.00

Customer

Appliance

Ref.

Ref.

Ref.

Ref.

Ref.

Ref.

Flue gas temperature (°C)	635.6	329.4
Flue gas temperature net (°C)	626.9	314.2
Flue draught pressure (mbar)	-	-
Oxygen (O ₂) %	7.5	8.7
Carbon Monoxide (CO) ppm	41	35
Carbon Dioxide (CO ₂) %	7.6	6.9
NO _x %	-	-
Excess air %	55.9	71.3
CO/CO ₂ - Ratio	0.0005	0.0005
Gross efficiency %	78.2	82.4
CO flue dilution ppm	-	-

Additional checks (Yes/No/NA)	No.1	No.2	No.3
Flue flow test satisfactory?	✓	✓	
Spillage test satisfactory?	✓	✓	
Ventilation satisfactory (see also Ventilation type)?	✓	✓	
Air/gas pressure switch operating correctly?	✓	✓	
Flame proving/safety devices operating correctly?	✓	✓	
Burner lock-out time (seconds)	10	10	
Temperature and limit thermostats operating correctly?	✓	✓	
Appliance serviced?	✓	✓	

Safety information (Yes/No)	Warning/Advice Notice raised (see item 1.1)
Has a Warning/Advice Notice been raised?	✓
Have warning labels been attached?	✓
Has responsible person been advised?	✓

G/SERVICING (MESTIC)



Safe Register on Tel: 0800 408 5500

n No: 192725

cence No: 3366284

8-1-18

e: J. McALEY

eld: ENGINEER

ails if different:

Tel No:

No. 2	No. 2	No. 3
Item 3		
Air Handler		
Combust		
300		
Altered		

city checks (Yes/No/NA)	
1/compressor(s) operating correctly?	MA
1 tightness test carried out (if Yes, see separate form)?	✓
1 pipework adequately supported?	✓
1 pipework sleeved/labelled/painted as necessary?	✓
1 n installed in accordance with appropriate standards?	✓
1 termination(s) satisfactory?	✓
1 ran-tue interlock operating correctly?	✓

ran-tue interlock operating correctly?

Ventilation type - Natural (go to item 1.) Mechanical (go to item 2.)	
1. Room/boiler room/enclosure	low-level free area (cm ²)
	high-level free area (cm ²)
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)	✓
2. Mechanical ventilation flow rate	inlet (m ³ /s)
	extract (m ³ /s)
Mechanical ventilation interlock operating correctly?	
Is ventilation satisfactory Yes/No? (if No, see Details of remedial work required)	

Details of work carried out

Annual service

Details of remedial work required

No. 5 has slight heat exchanger wear / crack signs, if becomes progressed unit will need replacing

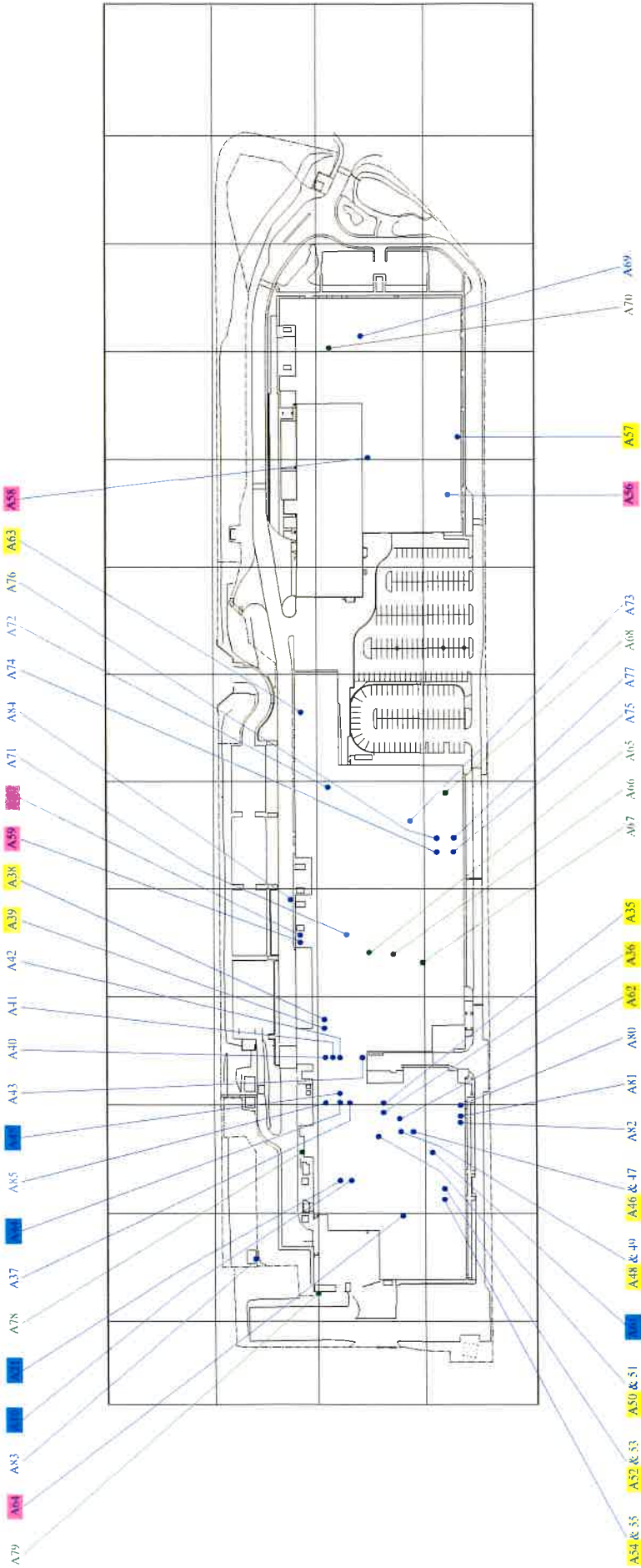
DECLARATION OF GAS SAFETY - I confirm that all of the above work described on this form has been satisfactorily completed in accordance with the current Gas Safety (Installation and Use) Regulations, standards and procedures.

Gas operative's signature

Action Plan - Boiler/Burner Repairs

Updated 10/1/18

[illegible]



Colour Key
Blue - Flues Relating to Boiler, Steam and General Ventilation
Green - Resin Vapour LEV
Orange - Low Risk Flues for Possible Future COS Processes

Stack No.	Process	Stack No.	Process
A79	Grid Casting Aging Oven No.2	A85	Assembly F1 and Line 9A Lid Bonding and Terminal Seal
A80	Grid Casting Aging Oven No.2	A86	Assembly Line 7 Lid Bonding and Terminal Seal
A81	Grid Casting Aging Oven No.2	A87	Assembly Line 8 Lid Bonding and Terminal Seal
A82	Grid Casting Aging Oven No.2	A88	Assembly Line 9 Lid Bonding and Terminal Seal
A83	Grid Casting Aging Oven No.2	A89	Assembly Line 10 Heat Seal (3 Filters, 1 Stack)
A84	Grid Casting Aging Oven No.2	A90	Assembly Line 10 Terminal 31 Lid Bonding and Terminal Seal (Not in use)
A85	Grid Casting Aging Oven No.2	A91	Assembly Line 10 Terminal 31 Lid Bonding and Terminal Seal (Not in use)
A86	Grid Casting Aging Oven No.2	A92	Assembly Charging Ex Lines 1 to 3 (Not in use)
A87	Grid Casting Aging Oven No.2	A93	Assembly Charging Lines 7 and 9A (Not in use)
A88	Grid Casting Aging Oven No.2	A94	Assembly Charging Line 8 Stack 1 (Not in use)
A89	Grid Casting Aging Oven No.2	A95	Assembly Charging Line 8 Stack 2 (Not in use)
A90	Grid Casting Aging Oven No.2	A96	Assembly Charging Line 8 Stack 3 (Not in use)
A91	Grid Casting Aging Oven No.2	A97	Assembly Charging Line 8 Stack 4 (Not in use)
A92	Grid Casting Aging Oven No.2	A98	Factory No.1 Resin Decanting Room
A93	Grid Casting Aging Oven No.2	A99	Factory No.1 First Floor Laboratory Fume Cabinet
A94	Grid Casting Aging Oven No.2	A100	Factory No.1 First Floor Laboratory Work Bench
A95	Grid Casting Aging Oven No.2	A101	Factory No.1 First Floor Laboratory Atomic Absorption Machine
A96	Grid Casting Aging Oven No.2	A102	Water Treatment Plant Work Bench
A97	Grid Casting Aging Oven No.2	A103	Factory No.2 Welding Room
A98	Grid Casting Aging Oven No.2	A104	Factory No.2 Paste Mixer
A99	Grid Casting Aging Oven No.2	A105	Air intake to No.2 Paste Mixer
A100	Grid Casting Aging Oven No.2		
A101	Grid Casting Aging Oven No.2		
A102	Grid Casting Aging Oven No.2		
A103	Grid Casting Aging Oven No.2		
A104	Grid Casting Aging Oven No.2		
A105	Grid Casting Aging Oven No.2		

Stacks Associated with Annual Boiler Efficiency Testing
Stacks 1 to 10
Stacks 11 to 20
Stacks 21 to 30
Stacks 31 to 40
Stacks 41 to 50
Stacks 51 to 60
Stacks 61 to 70
Stacks 71 to 80
Stacks 81 to 90
Stacks 91 to 100
Stacks 101 to 110
Stacks 111 to 120
Stacks 121 to 130
Stacks 131 to 140
Stacks 141 to 150
Stacks 151 to 160
Stacks 161 to 170
Stacks 171 to 180
Stacks 181 to 190
Stacks 191 to 200
Stacks 201 to 210
Stacks 211 to 220
Stacks 221 to 230
Stacks 231 to 240
Stacks 241 to 250
Stacks 251 to 260
Stacks 261 to 270
Stacks 271 to 280
Stacks 281 to 290
Stacks 291 to 300
Stacks 301 to 310
Stacks 311 to 320
Stacks 321 to 330
Stacks 331 to 340
Stacks 341 to 350
Stacks 351 to 360
Stacks 361 to 370
Stacks 371 to 380
Stacks 381 to 390
Stacks 391 to 400
Stacks 401 to 410
Stacks 411 to 420
Stacks 421 to 430
Stacks 431 to 440
Stacks 441 to 450
Stacks 451 to 460
Stacks 461 to 470
Stacks 471 to 480
Stacks 481 to 490
Stacks 491 to 500
Stacks 501 to 510
Stacks 511 to 520
Stacks 521 to 530
Stacks 531 to 540
Stacks 541 to 550
Stacks 551 to 560
Stacks 561 to 570
Stacks 571 to 580
Stacks 581 to 590
Stacks 591 to 600
Stacks 601 to 610
Stacks 611 to 620
Stacks 621 to 630
Stacks 631 to 640
Stacks 641 to 650
Stacks 651 to 660
Stacks 661 to 670
Stacks 671 to 680
Stacks 681 to 690
Stacks 691 to 700
Stacks 701 to 710
Stacks 711 to 720
Stacks 721 to 730
Stacks 731 to 740
Stacks 741 to 750
Stacks 751 to 760
Stacks 761 to 770
Stacks 771 to 780
Stacks 781 to 790
Stacks 791 to 800
Stacks 801 to 810
Stacks 811 to 820
Stacks 821 to 830
Stacks 831 to 840
Stacks 841 to 850
Stacks 851 to 860
Stacks 861 to 870
Stacks 871 to 880
Stacks 881 to 890
Stacks 891 to 900
Stacks 901 to 910
Stacks 911 to 920
Stacks 921 to 930
Stacks 931 to 940
Stacks 941 to 950
Stacks 951 to 960
Stacks 961 to 970
Stacks 971 to 980
Stacks 981 to 990
Stacks 991 to 1000

11111: Site Plan Showing Other Emission Points

PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	
CHECKED BY	
SCALE	
DRAWN	AD
DATE	10/11/18
PROJECT No.	FPE-076-02
REVISION	
DATE	
DESIGNED BY	

Lead Extraction and Current Status as at January 2018

Dept	Process Served	Stack No.	Status	Number of Emission Points	Substance Extracted	Permit ELV
Factory 2	Oxide Mill No. 4	A1	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Oxide Mill No. 5	A2	In use	1	Lead	0.5 mg m ⁻³
Factory 1	Casting Off-Cut Hopper	A3	Not in use	1	Lead	0.5 mg m ⁻³
Factory 1	Casting Ladles 1 - 16	A4	In use	1	Lead	0.5 mg m ⁻³
Factory 1	Pasting Machine Mixers 2 & 3	A6	In use	1	Lead	1.0 mg m ⁻³
Factory 1	Expanded Grid Line	A7	In use	1	Lead	2.0 mg m ⁻³
Factory 1	Auto Charging	A8	Not in use	1	Acid Mist	No ELV
Factory 1	Lead Dross and Recycling	A9	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Assembly Line 9A	A11	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Pellet Caster / Small Parts Caster	A12	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Assembly	A13	Not in use	1	Lead	2.0 mg m ⁻³
Factory 2	Assembly Lines 6 - 8 and Vacuum	A14	Not in use	1	Lead	2.0 mg m ⁻³
Factory 2	Assembly	A15	Not in use	1	Lead	0.5 mg m ⁻³
Factory 4	Assembly EN Line Vacuum Stack 1	A16	Not in use	1	Lead	0.5 mg m ⁻³
Factory 4	Assembly EN Line Vacuum Stack 2	A17	Not in use	1	Lead	0.5 mg m ⁻³
Factory 1	Cutting Machines 1 - 7 Vacuum	A18	In use	1	Lead	1.0 mg m ⁻³
Factory 1	Dross Bins 1 - 8	A19	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Oxide Mill No. 6	A20	In use	1	Lead	0.5 mg m ⁻³
Factory 4	Ex New NNP Vacuum	A22	Not in use	1	Lead	2.0 mg m ⁻³
Factory 2	Oxide Mill No. 7	A23	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Assembly Line 9 Extraction	A24	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Assembly Line 9 Vacuum	A25	Not in use	1	Lead	0.5 mg m ⁻³
Factory 1	Casting Pots 1 - 8	A26	In use	1	Lead	0.5 mg m ⁻³
Factory 2	Small Parts Casting Machine.	A27	Awaiting installation	1	Lead	1.0 mg m ⁻³

(New 0617)

Other Process Extraction and Current Status as at January 2018

Dept	Process Served	Stack No.	Status	Filter Type	Number of Emission Points		LEV or Process	Possible Emissions (process operating temperature)
Factory 1	Grid Casting Aging Oven No.1	A10	In use	N/A	1	200 Ø	Process	Combustion gases (Oven temp 100°C)
Factory 1	Grid Casting Aging Oven No.2	A21	In use	N/A	1	200 Ø	Process	Combustion gases (Oven temp 100°C)
Factory 2	Cast on strap Line 1	A28	Removed	Mesh filter & electrostatic	0	300 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 2	A29	Removed	Mesh filter & electrostatic	0	300 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 3	A30	Removed	Mesh filter & electrostatic	0	300 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 4	A31	Removed	Mesh filter & electrostatic	0	330 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 5	A32	Removed	Mesh filter & electrostatic	0	330 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 6	A33	Removed	Mesh filter & electrostatic	0	330 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 2	Cast on strap Line 7	A34	Removed	Mesh filter & electrostatic	0	330 Ø	Process	Oil mist. Lead fume if temp above 500°C (490°C)
Factory 1	Hydro-setting oven Lane 1	A35	In use	N/A	1	200 Ø	Process	Combustion Gases (Oven temp 50°C)
Factory 1	Hydro-setting oven Lane 2	A36	In use	N/A	1	200 Ø	Process	Combustion Gases (Oven temp 50°C)
Factory 1	Pasting Machine No.2 Take-off (Steam)	A37	In use	N/A	1	400 Ø	Process	Steam
Factory 2	Pellet Caster - Gas Burner Stack No.1	A38	In use	N/A	1	300 Ø	Process	Combustion gases
Factory 2	Pellet Caster - Gas Burner Stack No.2	A39	In use	N/A	1	200 Ø	Process	Combustion gases
Factory 2	Oxide Mill No.4 Extraction	A40	In use	N/A	1	450 Ø	Process	Water/moisture
Factory 2	Oxide Mill No.5 Extraction	A41	In use	N/A	1	500 Ø	Process	Water/moisture
Factory 2	Oxide Mill No.6 Extraction	A42	In use	N/A	1	450 Ø	Process	Water/moisture
Factory 2	Oxide Mill No.7 Extraction	A43	In use	N/A	1	500 Ø	Process	Water/moisture
Factory 1	Flash drying oven No 2	A44	In use	N/A	1	600 Ø	Process	Combustion gases
Factory 1	Flash drying oven No 3	A45	In use	N/A	1	600 Ø	Process	Combustion gases
Factory 1	Gas Drying oven No.1 Burner and Steam	A46 & A47	In use	N/A	2	150/250 Ø	Process	Combustion Gases (Oven temp 120 to 130°C)
Factory 1	Gas Drying oven No.2 Burner and Steam	A48 & A49	In use	N/A	2	150/250 Ø	Process	Combustion Gases (Oven temp 120 to 130°C)
Factory 1	Gas Drying oven No.3 Burner and Steam	A50 & A51	In use	N/A	2	150/250 Ø	Process	Combustion Gases (Oven temp 120 to 130°C)
Factory 1	Gas Drying oven No.9 Burner and Steam	A52 & A53	In use	N/A	2	150/250 Ø	Process	Combustion Gases (Oven temp 120 to 130°C)
Factory 1	Gas Drying oven No.10 Burner and Steam	A54 & A55	In use	N/A	2	150/250 Ø	Process	Combustion Gases (Oven temp 120 to 130°C)
Factory 3	Combat Heater No.1 South West	A56	Removed	N/A	1			Heating combustion gases
Factory 3	Combat Heater No.2 South East	A57	In use	N/A	1			Heating combustion gases
Factory 3	Combat Heater No.3 North East	A58	Removed	N/A	1			Heating combustion gases
Factory 2	0.85 MW _{in} Boiler	A59	Removed	N/A	1			Combustion gases
Factory 2	1.75 MW _{in} Boiler	A60	Not in use	N/A	1			Combustion gases

Other Process Extraction and Current Status as at January 2018

Dept	Process Served	Stack No.	Status	Filter Type	Number of Emission Points	LEV or Process	Possible Emissions (process operating temperature)
Factory 1	Dross Recycling Burner	A61	In use	N/A	1		
Factory 1	Hydro-setting oven Lanes 3 & 4 Steam	A62	In use	N/A	1	200 Ø	Combustion Gases (Oven temp 50°C)
Factory 2	Combat Heater No.5 Warehouse No.2 North East	A63	In use	N/A	1		Heating combustion gases
Factory 1	No heater fitted.	A64	Removed	N/A	1		Heating combustion gases
Factory 2	Assembly FT and Line 9A Lid Bonding and Terminal Seal	A65	In use	N/A	1	600 Ø	VOC's
Factory 2	Assembly Line 7 Lid Bonding and Terminal Seal	A66	In use	N/A	1	600 Ø	VOC's
Factory 2	Assembly Line 8 Lid Bonding and Terminal Seal	A67	In use	N/A	1	600 Ø	VOC's
Factory 2	Assembly Line 9 Lid Bonding and Terminal Seal	A68	In use	N/A	1	600 Ø	VOC's
Factory 4	Assembly Line 10 Heat Seal (3 work stations, 1 stack)	A69	In use	Mesh Filters X 3	1	300 Ø	VOC's
Factory 4	Assembly Line 10 Terminal Seal	A70	In use	N/A	1	200 Ø	VOC's
Factory 2	Assembly Ex Lines 1, 2 and 3 Lid Bonding and Terminal Seal	A71	Not in use	N/A	1	600 Ø	VOC's
Factory 2	Assembly Charging Ex Lines 1, 2 and 3	A72	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 2	Assembly Charging Lines 7 & 9A	A73	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 2	Charging Line 8 Stacks 1	A74	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 2	Charging Line 8 Stacks 2	A75	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 2	Charging Line 8 Stacks 3	A76	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 2	Charging Line 8 Stacks 4	A77	Not in use	N/A	1	600 Ø	Hydrogen Gas
Factory 1	Resin Decanting Room	A78	In use	Mesh Grill	1	100 Ø	VOC's
Factory 1 (Ext.)	Resin Mixing Room	A79	In use	Mesh Filters x2	1	300 Ø	VOC's
Factory 1	Laboratory Fume Cabinet	A80	In use	N/A	1	200 Ø	Chemical Vapour
Factory 1	Laboratory Work Bench	A81	In use	Mesh Grill	1	300 Ø	Chemical Vapour
Factory 1	Laboratory AA Machine	A82	In use	N/A	1	100 Ø	Chemical Vapour
Factory 1 (Ext.)	Water Treatment Plant Work Bench	A83	In use	N/A	1	250 Ø	Chemical Vapour
Factory 2	Welding Room	A84	Occasional Use	N/A	1	150 Ø	Occasional Welding fume
Factory 1	Air intake to No.2 pasting mixer	A85	In use	N/A	1	300 Ø	Fresh air intake to paste mixer.
Total					77		

Associated with Burner Efficiencies