

22 JUN 2016

Schedule 5 - 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.

Part A

Permit Number	TP3639BH
Name of operator	CELSA Manufacturing (UK) Ltd
Location of Facility	Seawall Road, Tremorfa, Cardiff CF24 5TH
Time and date of the detection	17/06/2016, 05.59-06.59, 06.59-07.59, 07.59-08.59, 08.59-09.59, 09.59-10.59, 10.59-11.59, 11.59-12.59, 12.59-13.59, 13.59-14.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 18.59-19.59, 20.59-21.59, 21.59-22.59.

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit 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	A1
Parameter(s)	CO
Limit	CO = 100 mg/m³ (hourly)
Measured value and uncertainty	17/06/2016, 05.59-06.59, Max Hourly Av.= 220.8 mg/m ³ , Max 95%ile Av.= 184.2 mg/m ³ , 06.59-07.59, Max Hourly Av.= 280.5 mg/m ³ , Max 95%ile Av.= 278.75 mg/m ³ , 07.59-08.59, Max Hourly Av.= 234.7 mg/m ³ , Max 95%ile Av.= 227.06 mg/m ³ , 08.59-09.59, Max Hourly Av.= 331.6 mg/m ³ , Max 95%ile Av.= 295.83 mg/m ³ , 09.59-10.59, Max Hourly Av.= 173.9 mg/m ³ , Max 95%ile Av.= 199.7 mg/m ³ , 10.59-11.59, Max Hourly Av.= 204.7 mg/m ³ , Max 95%ile Av.= 212.75 mg/m ³ , 11.59-12.59, Max Hourly Av.= 351.9 mg/m ³ , Max 95%ile Av.= 336.68 mg/m ³ , 12.59-13.59, Max Hourly Av.= 379.7 mg/m ³ , Max 95%ile Av.= 373.58 mg/m ³ , 13.59-14.59, Max Hourly Av.= 277.8 mg/m ³ , Max 95%ile Av.= 251.94 mg/m ³ , 15.59-16.59, Max Hourly Av.= 408.1 mg/m ³ , Max 95%ile Av.= 393.84 mg/m ³ , 16.59-17.59, Max Hourly Av.= 394.8 mg/m ³ , Max 95%ile Av.= 384.94 mg/m ³ , 17.59-18.59, Max Hourly Av.= 372.9 mg/m ³ , Max 95%ile Av.= 363.38 mg/m ³ , 18.59-19.59, Max Hourly Av.= 380 mg/m ³ , Max 95%ile Av.= 379.72 mg/m ³ , 20.59-21.59, Max Hourly Av.= 361.7 mg/m ³ , Max 95%ile Av.= 353.86 mg/m ³ , 21.59-22.59, Max Hourly Av.= 385.2 mg/m ³ , Max 95%ile Av.= 380 mg/m ³ .
Date and time of monitoring	17/06/2016, 05.59-06.59, 06.59-07.59, 07.59-08.59, 08.59-09.59, 09.59-10.59, 10.59-11.59, 11.59-12.59, 12.59-13.59, 13.59-14.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 18.59-19.59, 20.59-21.59, 21.59-22.59.
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(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.	It has been identified that water leaks in the T1 and T2 ducting within the quench tower are preventing complete combustion. This results in higher than normal off gas emissions. Weekly inspections and subsequent repairs are being completed during Planned Preventative Maintenance (PPM) downtime. Significant repairs are to be completed during 12 hour weekly stops to improve the condition of the ducting resulting in an improvement in emission levels. During the annual two week maintenance shutdown, the ducting panels are to be replaced.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	As above.
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	As above.
The dates of any unauthorised emissions from the facility in the preceding 24 months.	14 March, 19 March, 21 March, 22 March, 23 March, 24 March, 25 March, 26 March, 27 March, 28 March, 29 March, 30 March, 31 March, 1 April, 2 April, 3 April, 4 April, 5 April, 6 April, 7 April, 8 April, 9 April, 1 May, 10 May, 22 May, 23 May, 24 May, 25 May, 27 May, 28 May, 29 May, 2 June, 3 June, 5 June, 7 June, 8 June, 9 June, 19 June, 20 June, 23 June, 26 June, 11 July, 13 July, 5 August, 6 August, 7 August, 8 August, 9 August, 10 August, 11 August, 12 August, 13 August, 14 August, 15 August, 17 August, 19 August, 20 August, 21 August, 22 August, 23 August, 24 August, 29 August, 31 August, 1 September, 18 September, 23 September, 25 September, 4 October, 7 October, 8 October, 9 October, 10 October, 11 October, 4 November, 5 November, 6 November, 9 November, 10 November, 22 November, 23 November, 24 November, 25 November, 26 November, 27 November, 1 December, 2 December, 6 December, 7 December, 9 December, 11 December, 12 December, 13 December, 14 December, 15 December, 16 December, 17 December, 18 December, 19 December, 05 January, 6 January, 7 January, 8 January, 10 January, 12 January, 14 January, 19 January, 20 January, 21 January, 22 January, 27 January, 28 January, 29 January, 31 January, 3 February, 4 February, 8 February, 10 February, 11 February, 12 February, 13 February, 14 February, 15 February, 17 February, 18 February, 20 February, 21 February, 23 February, 25 February, 26 February, 27 February, 28 February, 1 March, 4 March, 5 March, 6 March, 8 March, 11 March, 14 March, 17 March, 18 March, 19 March, 20 March, 21 March, 22 March, 24 March, 26 March, 05 April, 6 April, 7 April, 8 April, 9 April, 10 April, 11 April, 13 April, 14 April, 15 April, 16 April, 17 April, 18 April, 19 April, 20 April, 7 May, 9 May, 22 May, 23 May, 26 May, 6 September, 1 November, 1 December, 17 December, 18 December, 19 December, 21 January, 24 January, 12 February, 16 February, 17 February, 18 February, 26 February, 27 February, 4 March, 5 March, 11 March, 14 March, 15 March, 16 March, 17 March, 18 March, 19 March, 20 March, 21 March, 22 March, 23 March, 24 March, 26 March, 27 March, 29 March, 30 March, 31 March, 1 April, 2 April, 3 April, 4 April, 5 April, 6 April, 7 April, 11 April, 12 April, 13 April, 15 April, 21 April, 6 May, 10 May, 11 May, 12 May, 15 May, 16 May, 17 May, 18 May, 19 May, 20 May, 21 May, 22 May, 23 May,

	24 May, 25 May, 26 May, 27 May, 28 May, 29 May, 30 May, 31 May, 3 June, 4 June, 5 June, 6 June, 7 June, 8 June, 9 June, 10 June, 11 June, 12 June, 13 June, 14 June, 15 June.
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Name*	Sara Jones
Post	Environmental Advisor
Signature	<u>S. Jones</u>
Date	21/06/2016

* authorised to sign on behalf of CELSA Manufacturing UK Limited

22 JUN 2016

Schedule 5 - 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.

Part A

Permit Number	TP3639BH
Name of operator	CELSA Manufacturing (UK) Ltd
Location of Facility	Seawall Road, Tremorfa, Cardiff CF24 5TH
Time and date of the detection	18/06/2016, 23.59-00.59, 00.59-01.59, 02.59-03.59, 03.59-04.59, 04.59-05.59, 05.59-06.59, 06.59-07.59, 08.59-09.59, 09.59-10.59, 10.59-11.59, 11.59-12.59, 12.59-13.59, 13.59-14.59, 14.59-15.59, 15.59-16.59, 17.59-18.59, 18.59-19.59, 19.59-20.59, 20.59-21.59, 21.59-22.59, 22.59-23.59.

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit 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	A1
Parameter(s)	CO
Limit	CO = 100 mg/m³ (hourly)
Measured value and uncertainty	18/06/2016, 23.59-00.59, Max Hourly Av.= 384.9 mg/m³, Max 95%ile Av.= 384.2 mg/m³, 00.59-01.59, Max Hourly Av.= 387.9 mg/m³, Max 95%ile Av.= 386.7 mg/m³, 02.59-03.59, Max Hourly Av.= 365.7 mg/m³, Max 95%ile Av.= 365.64 mg/m³, 03.59-04.59, Max Hourly Av.= 317.1 mg/m³, Max 95%ile Av.= 307.68 mg/m³, 04.59-05.59, Max Hourly Av.= 356.9 mg/m³, Max 95%ile Av.= 345.61 mg/m³, 05.59-06.59, Max Hourly Av.= 380.6 mg/m³, Max 95%ile Av.= 381.68 mg/m³, 06.59-07.59, Max Hourly Av.= 382 mg/m³, Max 95%ile Av.= 384.9 mg/m³, 08.59-09.59 Max Hourly Av.= 224.4 mg/m³, Max 95%ile Av.= 213.35 mg/m³, 09.59-10.59, Max Hourly Av.= 317.8 mg/m³, Max 95%ile Av.= 317.56 mg/m³, 10.59-11.59, Max Hourly Av.= 331.8 mg/m³, Max 95%ile Av.= 326.2 mg/m³, 11.59-12.59, Max Hourly Av.= 150.7 mg/m³, Max 95%ile Av.= 148.9 mg/m³, 12.59-13.59, Max Hourly Av.= 262.2 mg/m³, Max 95%ile Av.= 254.64 mg/m³, 13.59-14.59, Max Hourly Av.= 358.7 mg/m³, Max 95%ile Av.= 357.8 mg/m³, 14.59-15.59, Max Hourly Av.= 389.5 mg/m³, Max 95%ile Av.= 387.84 mg/m³, 15.59-16.59, Max Hourly Av.= 365.6 mg/m³, Max 95%ile Av.= 361.81 mg/m³, 17.59-18.59, Max Hourly Av.= 285.7 mg/m³, Max 95%ile Av.= 279.83 mg/m³, 18.59-19.59 Max Hourly Av.= 373 mg/m³, Max 95%ile Av.= 384.9 mg/m³, 19.59-20.59, Max Hourly Av.= 384.9 mg/m³, Max 95%ile Av.= 382.95 mg/m³, 20.59-21.59, Max Hourly Av.= 394.8 mg/m³, Max 95%ile Av.= 389.34 mg/m³, 21.59-22.59, Max Hourly Av.= 386.7 mg/m³, Max 95%ile Av.= 384.99 mg/m³, 22.59-23.59 Max Hourly Av.= 384.9 mg/m³, Max 95%ile Av.= 372.42 mg/m³.
Date and time of monitoring	18/06/2016, 23.59-00.59, 00.59-01.59, 02.59-03.59, 03.59-04.59, 04.59-05.59, 05.59-06.59, 06.59-07.59, 08.59-09.59, 09.59-10.59, 10.59-11.59, 11.59-12.59, 12.59-13.59, 13.59-14.59, 14.59-15.59, 15.59-16.59, 17.59-18.59, 18.59-19.59, 19.59-20.59, 20.59-21.59, 21.59-22.59, 22.59-23.59.
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(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.	It has been identified that water leaks in the T1 and T2 ducting within the quench tower are preventing complete combustion. This results in higher than normal off gas emissions. Weekly inspections and subsequent repairs are being completed during Planned Preventative Maintenance (PPM) downtime. Significant repairs are to be completed during 12 hour weekly stops to improve the condition of the ducting resulting in an improvement in emission levels. During the annual two week maintenance shutdown, the ducting panels are to be replaced.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	As above.
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	As above.
The dates of any unauthorised emissions from the facility in the preceding 24 months.	14 March, 19 March, 21 March, 22 March, 23 March, 24 March, 25 March, 26 March, 27 March, 28 March, 29 March, 30 March, 31 March, 1 April, 2 April, 3 April, 4 April, 5 April, 6 April, 7 April, 8 April, 9 April, 1 May, 10 May, 22 May, 23 May, 24 May, 25 May, 27 May, 28 May, 29 May, 2 June, 3 June, 5 June, 7 June, 8 June, 9 June, 19 June, 20 June, 23 June, 26 June, 11 July, 13 July, 5 August, 6 August, 7 August, 8 August, 9 August, 10 August, 11 August, 12 August, 13 August, 14 August, 15 August, 17 August, 19 August, 20 August, 21 August, 22 August, 23 August, 24 August, 29 August, 31 August, 1 September, 18 September, 23 September, 25 September, 4 October, 7 October, 8 October, 9 October, 10 October, 11 October, 4 November, 5 November, 6 November, 9 November, 10 November, 22 November, 23 November, 24 November, 25 November, 26 November, 27 November, 1 December, 2 December, 6 December, 7 December, 9 December, 11 December, 12 December, 13 December, 14 December, 15 December, 16 December, 17 December, 18 December, 19 December, 05 January, 6 January, 7 January, 8 January, 10 January, 12 January, 14 January, 19 January, 20 January, 21 January, 22 January, 27 January, 28 January, 29 January, 31 January, 3 February, 4 February, 8 February, 10 February, 11 February, 12 February, 13 February, 14 February, 15 February, 17 February, 18 February, 20 February, 21 February, 23 February, 25 February, 26 February, 27 February, 28 February, 1 March, 4 March, 5 March, 6 March, 8 March, 11 March, 14 March, 17 March, 18 March, 19 March, 20 March, 21 March, 22 March, 24 March, 26 March, 05 April, 6 April, 7 April, 8 April, 9 April, 10 April, 11 April, 13 April, 14 April, 15 April, 16 April, 17 April, 18 April, 19 April, 20 April, 7 May, 9 May, 22 May, 23 May, 26 May, 6 September, 1 November, 1 December, 17 December, 18 December, 19 December, 21 January, 24 January, 12 February, 16 February, 17 February, 18 February, 26 February, 27 February, 4 March, 5 March, 11 March, 14 March, 15 March, 16 March, 17 March, 18 March, 19 March, 20 March, 21 March, 22 March, 23 March, 24 March, 26 March, 27 March, 29 March, 30 March, 31 March, 1 April, 2 April, 3 April, 4 April, 5 April, 6 April, 7 April, 11 April, 12 April, 13 April, 15 April, 21 April, 6 May, 10 May, 11 May, 12 May, 15 May, 16 May, 17 May, 18 May, 19 May, 20 May, 21 May, 22 May, 23 May,

	24 May, 25 May, 26 May, 27 May, 28 May, 29 May, 30 May, 31 May, 3 June, 4 June, 5 June, 6 June, 7 June, 8 June, 9 June, 10 June, 11 June, 12 June, 13 June, 14 June, 15 June, 17 June.
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Name*	Sara Jones
Post	Environmental Advisor
Signature	<u>S. Jones</u>
Date	21/06/2016

* authorised to sign on behalf of CELSA Manufacturing UK Limited

22 JUN 2016

Schedule 5 - 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.

Part A

Permit Number	TP3639BH
Name of operator	CELSA Manufacturing (UK) Ltd
Location of Facility	Seawall Road, Tremorfa, Cardiff CF24 5TH
Time and date of the detection	19/06/2016, 23.59-00.59, 00.59-01.59, 01.59-02.59, 02.59-03.59, 03.59-04.59, 04.59-05.59, 05.59-06.59, 06.59-07.59, 07.59-08.59, 08.59-09.59, 09.59-10.59, 11.59-12.59, 12.59-13.59, 13.59-14.59, 14.59-15.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 18.59-19.59, 20.59-21.59, 21.59-22.59, 22.59-23.59.

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit 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	A1
Parameter(s)	CO, Particulates
Limit	CO = 100 mg/m³ (hourly), Particulates = 5 mg/m³ (daily average)
Measured value and uncertainty	<u>CO</u> 19/06/2016, 23.59-00.59, Max Hourly Av.= 355.4 mg/m³, Max 95%ile Av.= 352.93 mg/m³, 00.59-01.59, Max Hourly Av.= 273.2 mg/m³, Max 95%ile Av.= 272.33 mg/m³, 01.59-02.59, Max Hourly Av.= 200.5 mg/m³, Max 95%ile Av.= 197.94 mg/m³, 02.59-03.59, Max Hourly Av.= 333.2 mg/m³, Max 95%ile Av.= 332.56 mg/m³, 03.59-04.59, Max Hourly Av.= 351.6 mg/m³, Max 95%ile Av.= 349.44 mg/m³, 04.59-05.59, Max Hourly Av.= 357.3 mg/m³, Max 95%ile Av.= 355.97 mg/m³, 05.59-06.59, Max Hourly Av.= 374.2 mg/m³, Max 95%ile Av.= 364.6 mg/m³, 06.59-07.59, Max Hourly Av.= 423.4 mg/m³, Max 95%ile Av.= 402.9 mg/m³, 07.59-08.59, Max Hourly Av.= 341.4 mg/m³, Max 95%ile Av.= 337.45 mg/m³, 08.59-09.59, Max Hourly Av.= 348 mg/m³, Max 95%ile Av.= 344.37 mg/m³, 09.59-10.59, Max Hourly Av.= 331.6 mg/m³, Max 95%ile Av.= 311.16 mg/m³, 11.59-12.59, Max Hourly Av.= 269.8 mg/m³, Max 95%ile Av.= 260.02 mg/m³, 12.59-13.59, Max Hourly Av.= 210.1 mg/m³, Max 95%ile Av.= 209.14 mg/m³, 13.59-14.59, Max Hourly Av.= 376.4 mg/m³, Max 95%ile Av.= 374.42 mg/m³, 14.59-15.59, Max Hourly Av.= 377.1 mg/m³, Max 95%ile Av.= 376.43 mg/m³, 15.59-16.59, Max Hourly Av.= 333.5 mg/m³, Max 95%ile Av.= 333.37 mg/m³, 16.59-17.59 Max Hourly Av.= 220.9 mg/m³, Max 95%ile Av.= 219.28 mg/m³, 17.59-18.59, Max Hourly Av.= 270.3 mg/m³, Max 95%ile Av.= 270.18 mg/m³, 18.59-19.59, Max Hourly Av.= 362.6 mg/m³, Max 95%ile Av.= 358.63 mg/m³, 20.59-21.59, Max Hourly Av.= 362.9 mg/m³, Max 95%ile Av.= 362.66 mg/m³, 21.59-22.59, Max Hourly Av.= 402.2 mg/m³, Max 95%ile Av.= 377.1 mg/m³, 22.59-23.59 Max Hourly Av.= 423.4 mg/m³, Max 95%ile Av.= 400.95 mg/m³. <u>Particulates.</u> 19/06/2016. Daily Average = 5.18 mg/m³.
Date and time of monitoring	19/06/2016, 23.59-00.59, 00.59-01.59, 01.59-02.59, 02.59-03.59, 03.59-04.59, 04.59-05.59, 05.59-06.59, 06.59-07.59, 07.59-08.59, 08.59-09.59, 09.59-10.59, 11.59-12.59, 12.59-13.59, 13.59-14.59, 14.59-15.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 18.59-19.59, 20.59-21.59, 21.59-22.59, 22.59-23.59. Particulates 19/06/2016 [24hrs].
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(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.	It has been identified that water leaks in the T1 and T2 ducting within the quench tower are preventing complete combustion. This results in higher than normal off gas emissions. Weekly inspections and subsequent repairs are being completed during Planned Preventative Maintenance (PPM) downtime. Significant repairs are to be completed during 12 hour weekly stops to improve the condition of the ducting resulting in an improvement in emission levels. During the annual two week maintenance shutdown, the ducting panels are to be replaced.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	As above.
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	As above.
The dates of any unauthorised emissions from the facility in the preceding 24 months.	14 March, 19 March, 21 March, 22 March, 23 March, 24 March, 25 March, 26 March, 27 March, 28 March, 29 March, 30 March, 31 March, 1 April, 2 April, 3 April, 4 April, 5 April, 6 April, 7 April, 8 April, 9 April, 1 May, 10 May, 22 May, 23 May, 24 May, 25 May, 27 May, 28 May, 29 May, 2 June, 3 June, 5 June, 7 June, 8 June, 9 June, 19 June, 20 June, 23 June, 26 June, 11 July, 13 July, 5 August, 6 August, 7 August, 8 August, 9 August, 10 August, 11 August, 12 August, 13 August, 14 August, 15 August, 17 August, 19 August, 20 August, 21 August, 22 August, 23 August, 24 August, 29 August, 31 August, 1 September, 18 September, 23 September, 25 September, 4 October, 7 October, 8 October, 9 October, 10 October, 11 October, 4 November, 5 November, 6 November, 9 November, 10 November, 22 November, 23 November, 24 November, 25 November, 26 November, 27 November, 1 December, 2 December, 6 December, 7 December, 9 December, 11 December, 12 December, 13 December, 14 December, 15 December, 16 December, 17 December, 18 December, 19 December, 05 January, 6 January, 7 January, 8 January, 10 January, 12 January, 14 January, 19 January, 20 January, 21 January, 22 January, 27 January, 28 January, 29 January, 31 January, 3 February, 4 February, 8 February, 10 February, 11 February, 12 February, 13 February, 14 February, 15 February, 17 February, 18 February, 20 February, 21 February, 23 February, 25 February, 26 February, 27 February, 28 February, 1 March, 4 March, 5 March, 6 March, 8 March, 11 March, 14 March, 17 March, 18 March, 19 March, 20 March, 21 March, 22 March, 24 March, 26 March, 05 April, 6 April, 7 April, 8 April, 9 April, 10 April, 11 April, 13 April, 14 April, 15 April, 16 April, 17 April, 18 April, 19 April, 20 April, 7 May, 9 May, 22 May, 23 May, 26 May, 6 September, 1 November, 1 December, 17 December, 18 December, 19 December, 21 January, 24 January, 12 February, 16 February, 17 February, 18 February, 26 February, 27 February, 4 March, 5 March, 11 March, 14 March, 15 March, 16 March, 17 March, 18 March, 19 March, 20 March, 21 March, 22 March, 23 March, 24 March, 26 March, 27 March, 29 March, 30 March, 31 March, 1 April, 2 April, 3 April, 4 April, 5 April, 6 April, 7 April, 11 April, 12 April, 13 April, 15 April, 21 April, 6 May, 10 May, 11 May, 12 May, 15 May, 16 May, 17 May, 18 May, 19 May, 20 May, 21 May, 22 May, 23 May,

	24 May, 25 May, 26 May, 27 May, 28 May, 29 May, 30 May, 31 May, 3 June, 4 June, 5 June, 6 June, 7 June, 8 June, 9 June, 10 June, 11 June, 12 June, 13 June, 14 June, 15 June, 17 June, 18 June.
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Name*	Sara Jones
Post	Environmental Advisor
Signature	<u>S. Jones</u>
Date	21/06/2016

* authorised to sign on behalf of CELSA Manufacturing UK Limited

Schedule 5 - 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.

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Part A

Permit Number	TP3639BH
Name of operator	CELSA Manufacturing (UK) Ltd
Location of Facility	Seawall Road, Tremorfa, Cardiff CF24 5TH
Time and date of the detection	20/06/2016, 23.59-00.59, 00.59-01.59, 01.59-02.59, 02.59-03.59, 03.59-04.59, 04.59-05.59, 05.59-06.59, 06.59-07.59, 07.59-08.59, 08.59-09.59, 09.59-10.59, 10.59-11.59, 11.59-12.59, 12.59-13.59, 13.59-14.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 18.59-19.59, 19.59-20.59, 20.59-21.59, 21.59-22.59, 22.59-23.59.

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit 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.	

Replacement

(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	A1
Parameter(s)	CO, Particulates
Limit	CO = 100 mg/m³ (hourly), Particulates = 5 mg/m³ (daily average)
Measured value and uncertainty	<u>CO</u> 20/06/2016, 23.59-00.59, Max Hourly Av.= 180 mg/m³, Max 95%ile Av.= 179.75 mg/m³, 00.59-01.59, Max Hourly Av.= 175 mg/m³, Max 95%ile Av.= 175 mg/m³, 01.59-02.59, Max Hourly Av.= 314 mg/m³, Max 95%ile Av.= 312.75 mg/m³, 02.59-03.59, Max Hourly Av.= 205.1 mg/m³, Max 95%ile Av.= 202.59 mg/m³, 03.59-04.59, Max Hourly Av.= 216.1 mg/m³, Max 95%ile Av.= 214.45 mg/m³, 04.59-05.59, Max Hourly Av.= 344.7 mg/m³, Max 95%ile Av.= 332.28 mg/m³, 05.59-06.59, Max Hourly Av.= 344.8 mg/m³, Max 95%ile Av.= 344.74 mg/m³, 06.59-07.59, Max Hourly Av.= 291 mg/m³, Max 95%ile Av.= 281.62 mg/m³, 07.59-08.59, Max Hourly Av.= 395.9 mg/m³, Max 95%ile Av.= 394.6 mg/m³, 08.59-09.59, Max Hourly Av.= 324 mg/m³, Max 95%ile Av.= 318.5 mg/m³, 09.59-10.59, Max Hourly Av.= 241.9 mg/m³, Max 95%ile Av.= 239.33 mg/m³, 10.59-11.59, Max Hourly Av.= 394.6 mg/m³, Max 95%ile Av.= 387.38 mg/m³, 11.59-12.59, Max Hourly Av.= 311.5 mg/m³, Max 95%ile Av.= 302.55 mg/m³, 12.59-13.59, Max Hourly Av.= 373 mg/mg³, Max 95%ile Av.= 360.12 mg/m³, 13.59-14.59, Max Hourly Av.= 415.7 mg/m³, Max 95%ile Av.= 402.83 mg/m³, 15.59-16.59, Max Hourly Av.= 356.9 mg/m³, Max 95%ile Av.= 356.53 mg/m³, 16.59-17.59, Max Hourly Av.= 356.4 mg/m³, Max 95%ile Av.= 348.28 mg/m³, 17.59-18.59, Max Hourly Av.= 382.8 mg/m³, Max 95%ile Av.= 374.47 mg/m³, 18.59-19.59, Max Hourly Av.= 291.6 mg/m³, Max 95%ile Av.= 291.36 mg/m³, 19.59-20.59, Max Hourly Av.= 231.6 mg/m³, Max 95%ile Av.= 228.5 mg/m³, 20.59-21.59, Max Hourly Av.= 264.2 mg/m³, Max 95%ile Av.= 257.51 mg/m³, 21.59-22.59, Max Hourly Av.= 387 mg/m³, Max 95%ile Av.= 383.22 mg/m³, 22.59-23.59 Max Hourly Av.= 404.6 mg/m³, Max 95%ile Av.= 394.6 mg/m³. <u>Particulates.</u> 20/06/2016. Daily Average = 5.20 mg/m³.
Date and time of monitoring	20/06/2016, 23.59-00.59, 00.59-01.59, 01.59-02.59, 02.59-03.59, 03.59-04.59, 04.59-05.59, 05.59-06.59, 06.59-07.59, 07.59-08.59, 08.59-09.59, 09.59-10.59, 10.59-11.59, 11.59-12.59, 12.59-13.59, 13.59-14.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 18.59-19.59, 19.59-20.59, 20.59-21.59, 21.59-22.59, 22.59-23.59. Particulates 20/06/2016 [24hrs].
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(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.	It has been identified that water leaks in the T1 and T2 ducting within the quench tower are preventing complete combustion. This results in higher than normal off gas emissions. Weekly inspections and subsequent repairs are being completed during Planned Preventative Maintenance (PPM) downtime. Significant repairs are to be completed during 12 hour weekly stops to improve the condition of the ducting resulting in an improvement in emission levels. During the annual two week maintenance shutdown, the ducting panels are to be replaced.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	As above.
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	As above.
The dates of any unauthorised emissions from the facility in the preceding 24 months.	14 March, 19 March, 21 March, 22 March, 23 March, 24 March, 25 March, 26 March, 27 March, 28 March, 29 March, 30 March, 31 March, 1 April, 2 April, 3 April, 4 April, 5 April, 6 April, 7 April, 8 April, 9 April, 1 May, 10 May, 22 May, 23 May, 24 May, 25 May, 27 May, 28 May, 29 May, 2 June, 3 June, 5 June, 7 June, 8 June, 9 June, 19 June, 20 June, 23 June, 26 June, 11 July, 13 July, 5 August, 6 August, 7 August, 8 August, 9 August, 10 August, 11 August, 12 August, 13 August, 14 August, 15 August, 17 August, 19 August, 20 August, 21 August, 22 August, 23 August, 24 August, 29 August, 31 August, 1 September, 18 September, 23 September, 25 September, 4 October, 7 October, 8 October, 9 October, 10 October, 11 October, 4 November, 5 November, 6 November, 9 November, 10 November, 22 November, 23 November, 24 November, 25 November, 26 November, 27 November, 1 December, 2 December, 6 December, 7 December, 9 December, 11 December, 12 December, 13 December, 14 December, 15 December, 16 December, 17 December, 18 December, 19 December, 05 January, 6 January, 7 January, 8 January, 10 January, 12 January, 14 January, 19 January, 20 January, 21 January, 22 January, 27 January, 28 January, 29 January, 31 January, 3 February, 4 February, 8 February, 10 February, 11 February, 12 February, 13 February, 14 February, 15 February, 17 February, 18 February, 20 February, 21 February, 23 February, 25 February, 26 February, 27 February, 28 February, 1 March, 4 March, 5 March, 6 March, 8 March, 11 March, 14 March, 17 March, 18 March, 19 March, 20 March, 21 March, 22 March, 24 March, 26 March, 05 April, 6 April, 7 April, 8 April, 9 April, 10 April, 11 April, 13 April, 14 April, 15 April, 16 April, 17 April, 18 April, 19 April, 20 April, 7 May, 9 May, 22 May, 23 May, 26 May, 6 September, 1 November, 1 December, 17 December, 18 December, 19 December, 21 January, 24 January, 12 February, 16 February, 17 February, 18 February, 26 February, 27 February, 4 March, 5 March, 11 March, 14 March, 15 March, 16 March, 17 March, 18 March, 19 March, 20 March, 21 March, 22 March, 23 March, 24 March, 26 March, 27 March, 29 March, 30 March, 31 March, 1 April, 2 April, 3 April, 4 April, 5 April, 6 April, 7 April, 11 April, 12 April, 13 April, 15 April, 21 April, 6 May, 10 May, 11 May, 12 May, 15 May, 16 May, 17 May, 18 May, 19 May, 20 May, 21 May, 22 May, 23 May,

	24 May, 25 May, 26 May, 27 May, 28 May, 29 May, 30 May, 31 May, 3 June, 4 June, 5 June, 6 June, 7 June, 8 June, 9 June, 10 June, 11 June, 12 June, 13 June, 14 June, 15 June, 17 June, 18 June, 19 June.
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Name*	Sara Jones
Post	Environmental Advisor
Signature	<u>S. Jones</u>
Date	22/06/2016

* authorised to sign on behalf of CELSA Manufacturing UK Limited

23 JUN 2016

Schedule 5 - 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.

Part A

Permit Number	TP3639BH
Name of operator	CELSA Manufacturing (UK) Ltd
Location of Facility	Seawall Road, Tremorfa, Cardiff CF24 5TH
Time and date of the detection	21/06/2016, 23.59-00.59, 00.59-01.59, 01.59-02.59, 02.59-03.59, 03.59-04.59, 04.59-05.59, 05.59-06.59, 06.59-07.59, 07.59-08.59, 09.59-10.59, 10.59-11.59, 11.59-12.59, 12.59-13.59, 13.59-14.59, 14.59-15.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 18.59-19.59, 19.59-20.59, 21.59-22.59, 22.59-23.59.

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit 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.	

Replacement

(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	A1
Parameter(s)	CO, Particulates
Limit	CO = 100 mg/m³ (hourly), Particulates = 5 mg/m³ (daily average)
Measured value and uncertainty	<u>CO</u> 21/06/2016, 23.59-00.59, Max Hourly Av.= 378.3 mg/m³, Max 95%ile Av.= 377.46 mg/m³, 00.59-01.59, Max Hourly Av.= 385.4 mg/m³, Max 95%ile Av.= 380.4 mg/m³, 01.59-02.59, Max Hourly Av.= 407.1 mg/m³, Max 95%ile Av.= 403.5 mg/m³, 02.59-03.59, Max Hourly Av.= 373.9 mg/m³, Max 95%ile Av.= 372.9 mg/m³, 03.59-04.59, Max Hourly Av.= 331.7 mg/m³, Max 95%ile Av.= 330.96 mg/m³, 04.59-05.59, Max Hourly Av.= 328 mg/m³, Max 95%ile Av.= 316.53 mg/m³, 05.59-06.59, Max Hourly Av.= 400.4 mg/m³, Max 95%ile Av.= 395.27 mg/m³, 06.59-07.59, Max Hourly Av.= 338 mg/m³, Max 95%ile Av.= 337.31 mg/m³, 07.59-08.59, Max Hourly Av.= 251.5 mg/m³, Max 95%ile Av.= 248.82 mg/m³, 09.59-10.59, Max Hourly Av.= 224.7 mg/m³, Max 95%ile Av.= 217.36 mg/m³, 10.59-11.59, Max Hourly Av.= 378.3 mg/m³, Max 95%ile Av.= 378.3 mg/m³, 11.59-12.59, Max Hourly Av.= 339.5 mg/m³, Max 95%ile Av.= 338.98 mg/m³, 12.59-13.59, Max Hourly Av.= 432.2 mg/m³, Max 95%ile Av.= 429.33 mg/m³, 13.59-14.59, Max Hourly Av.= 378.7 mg/m³, Max 95%ile Av.= 378.4 mg/m³, 14.59-15.59, Max Hourly Av.= 431.8 mg/m³, Max 95%ile Av.= 406.92 mg/m³, 15.59-16.59, Max Hourly Av.= 377 mg/m³, Max 95%ile Av.= 375.5 mg/m³, 16.59-17.59, Max Hourly Av.= 371.9 mg/m³, Max 95%ile Av.= 364.84 mg/m³, 17.59-18.59, Max Hourly Av.= 356.2 mg/m³, Max 95%ile Av.= 349.52 mg/m³, 18.59-19.59, Max Hourly Av.= 335.7 mg/m³, Max 95%ile Av.= 334.7 mg/m³, 19.59-20.59, Max Hourly Av.= 374.5 mg/m³, Max 95%ile Av.= 374.17 mg/m³, 21.59-22.59, Max Hourly Av.= 394.7 mg/m³, Max 95%ile Av.= 386.8 mg/m³, 22.59-23.59, Max Hourly Av.= 403.5 mg/m³, Max 95%ile Av.= 400.56 mg/m³. <u>Particulates.</u> 21/06/2016. Daily Average = 5.05 mg/m³.
Date and time of monitoring	21/06/2016, 23.59-00.59, 00.59-01.59, 01.59-02.59, 02.59-03.59, 03.59-04.59, 04.59-05.59, 05.59-06.59, 06.59-07.59, 07.59-08.59, 09.59-10.59, 10.59-11.59, 11.59-12.59, 12.59-13.59, 13.59-14.59, 14.59-15.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 18.59-19.59, 19.59-20.59, 21.59-22.59, 22.59-23.59. Particulates 21/06/2016 [24 hrs].
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(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.	It has been identified that water leaks in the T1 and T2 ducting within the quench tower are preventing complete combustion. This results in higher than normal off gas emissions. Weekly inspections and subsequent repairs are being completed during Planned Preventative Maintenance (PPM) downtime. Significant repairs are to be completed during 12 hour weekly stops to improve the condition of the ducting resulting in an improvement in emission levels. During the annual two week maintenance shutdown, the ducting panels are to be replaced.
Measures taken, or intended to be taken, to prevent a recurrence of the incident	As above.
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	As above.
The dates of any unauthorised emissions from the facility in the preceding 24 months.	14 March, 19 March, 21 March, 22 March, 23 March, 24 March, 25 March, 26 March, 27 March, 28 March, 29 March, 30 March, 31 March, 1 April, 2 April, 3 April, 4 April, 5 April, 6 April, 7 April, 8 April, 9 April, 1 May, 10 May, 22 May, 23 May, 24 May, 25 May, 27 May, 28 May, 29 May, 2 June, 3 June, 5 June, 7 June, 8 June, 9 June, 19 June, 20 June, 23 June, 26 June, 11 July, 13 July, 5 August, 6 August, 7 August, 8 August, 9 August, 10 August, 11 August, 12 August, 13 August, 14 August, 15 August, 17 August, 19 August, 20 August, 21 August, 22 August, 23 August, 24 August, 29 August, 31 August, 1 September, 18 September, 23 September, 25 September, 4 October, 7 October, 8 October, 9 October, 10 October, 11 October, 4 November, 5 November, 6 November, 9 November, 10 November, 22 November, 23 November, 24 November, 25 November, 26 November, 27 November, 1 December, 2 December, 6 December, 7 December, 9 December, 11 December, 12 December, 13 December, 14 December, 15 December, 16 December, 17 December, 18 December, 19 December, 05 January, 6 January, 7 January, 8 January, 10 January, 12 January, 14 January, 19 January, 20 January, 21 January, 22 January, 27 January, 28 January, 29 January, 31 January, 3 February, 4 February, 8 February, 10 February, 11 February, 12 February, 13 February, 14 February, 15 February, 17 February, 18 February, 20 February, 21 February, 23 February, 25 February, 26 February, 27 February, 28 February, 1 March, 4 March, 5 March, 6 March, 8 March, 11 March, 14 March, 17 March, 18 March, 19 March, 20 March, 21 March, 22 March, 24 March, 26 March, 05 April, 6 April, 7 April, 8 April, 9 April, 10 April, 11 April, 13 April, 14 April, 15 April, 16 April, 17 April, 18 April, 19 April, 20 April, 7 May, 9 May, 22 May, 23 May, 26 May, 6 September, 1 November, 1 December, 17 December, 18 December, 19 December, 21 January, 24 January, 12 February, 16 February, 17 February, 18 February, 26 February, 27 February, 4 March, 5 March, 11 March, 14 March, 15 March, 16 March, 17 March, 18 March, 19 March, 20 March, 21 March, 22 March, 23 March, 24 March, 26 March, 27 March, 29 March, 30 March, 31 March, 1 April, 2 April, 3 April, 4 April, 5 April, 6 April, 7 April, 11 April, 12 April, 13 April, 15 April, 21 April, 6 May, 10 May, 11 May, 12 May, 15 May, 16 May, 17 May, 18 May, 19 May, 20 May, 21 May, 22 May, 23 May,

	24 May, 25 May, 26 May, 27 May, 28 May, 29 May, 30 May, 31 May, 3 June, 4 June, 5 June, 6 June, 7 June, 8 June, 9 June, 10 June, 11 June, 12 June, 13 June, 14 June, 15 June, 17 June, 18 June, 19 June, 20 June.
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Name*	Sara Jones
Post	Environmental Advisor
Signature	<u>S. Jones</u>
Date	22/06/2016

* authorised to sign on behalf of CELSA Manufacturing UK Limited

