

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	18/04/2019 14.59-15.59, 18.59-19.59

(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
Measured value and uncertainty	18/04/2019 14.59-15.59, Max Hourly Av. = 164.2 mg/m³, Max 95%ile Av. = 106.99 mg/m³ 18.59-19.59, Max Hourly Av. = 176.6 mg/m³, Max 95%ile Av. = 158.48 mg/m³
Date and Time of Monitoring	18/04/2019 14.59-15.59, 18.59-19.59
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.	During the time of the breach there were no obvious production issues, delays or engineering activities that could have contributed to high levels of CO. Elevated levels of CO were witnessed during basket discharging which is considered normal operations.
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.	2017, , 27 April, 05 May, 08 Jun, 09 June, 28 Jun, 01 Jul, 02 Jul, 06 Jul, 07 Jul, 08 Jul, 09 Jul, 10 Jul, 11 Jul, 12 Jul, 14 Jul, 16 Jul, 25 Jul, 27 Jul, 28 Jul, 16 Aug, 17 Aug, 18 Aug, 24 Aug, 29 Aug, 30 Aug, 02 Sept, 03 Sept, 04 Sept, 05 Sept, 06 Sept, 08 Sept, 09 Sept, 10 Sept, 15 Sept, 16 Sept, 17 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 22 Sept, 23 Sept, 24 Sept, 25 Sept, 26 Sept, 27 Sept, 28 Sept, 29 Sept, 01 Oct, 02 Oct, 04 Oct, 05 Oct, 06 Oct, 08 Oct, 09 Oct, 10 Oct, 11 Oct, 12 Oct, 19 Oct, 20 Oct, 21 Oct, 22 Oct, 23 Oct, 24 Oct, 26 Oct, 27 Oct, 28 Oct, 30 Oct, 31 Oct, 01 Nov, 02 Nov, 06 Nov, 07 Nov, 10 Nov, 13 Nov, 14 Nov, 15 Nov, 16 Nov, 17 Nov, 18 Nov, 19 Nov, 20 Nov, 21 Nov, 22 Nov, 23 Nov, 24 Nov, 25 Nov, 26 Nov, 27 Nov, 28 Nov, 29 Nov, 30 Nov, 1 Dec, 2 Dec, 3 Dec, 4 Dec, 5 Dec, 9 Dec, 10 Dec, 11 Dec, 12 Dec, 14 Dec, 15 Dec, 16 Dec, 17 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec 05 Jan 2018, 06 Jan, 07 Jan, 08 Jan, 09 Jan, 10 Jan, 11 Jan, 12 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan, 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 Jan, 31 Jan, 01 Feb, 02 Feb, 03 Feb, 04 Feb, 05 Feb, 06 Feb, 07 Feb, 08 Feb, 09 Feb, 10 Feb, 11 Feb, 12 Feb, 13 Feb, 14 Feb, 15 Feb, 16 Feb, 17 Feb, 18 Feb, 19 Feb, 20 Feb, 21 Feb, 22 Feb, 23 Feb, 24 Feb, 25 Feb, 26 Feb, 27 Feb, 28 Feb, 05 Mar, 06 Mar, 07 Mar, 08 Mar, 09 Mar, 10 Mar, 11 Mar, 12 Mar, 13 Mar, 14 Mar, 15 Mar, 16 Mar, 17 Mar, 18 Mar, 19 Mar, 20 Mar, 21 Mar, 26 Mar, 27 Mar, 28 Mar, 29 Mar, 30 Mar, 31 Mar, 01 Apr, 02 Apr, 03 Apr, 04 Apr, 05 Apr, 06 Apr, 07 Apr, 08 Apr, 09 Apr, 10 Apr, 11 Apr, 12 Apr, 13 Apr, 14 Apr, 15 Apr, 16 Apr, 17 Apr, 18 Apr, 19 Apr, 20 Apr, 25 Apr, 26 Apr, 28 Apr, 29 Apr, 30 Apr, 01 May, 02 May, 03 May, 04 May, 05 May, 23 May, 24 May, 25 May, 28 May, 31 May, 1 June, 3 June, 4 June, 5 June, 9 June, 10 June, 11 June, 12 June, 15 June, 19 June, 20 June, 26 June, 27 June, 11 Jul, 12 Jul, 25 Jul, 31 Jul, 2 Aug, 4 Aug, 8 Aug, 10 Aug, 12 Aug, 13 Aug, 14 Aug, 15 Aug, 22 Aug, 24 Aug, 25 Aug, 26 Aug, 27 Aug, 29 Aug, 30 Aug, 31 Aug, 2 Sept, 3 Sept, 4 Sept, 5 Sept, 6 Sept, 11 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 27 Sept, 1 Oct, 2 Oct, 3 Oct, 4 Oct, 5 Oct, 6 Oct, 7 Oct, 8 Oct, 9 Oct, 10 Oct, 24 Oct, 26 Oct, 29 Oct, 30 Oct, 31 Oct, 3 Nov, 4 Nov, 5 Nov, 6 Nov, 7 Nov, 24 Nov, 30 Nov, 12 Dec, 13 Dec, 14 Dec, 16 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec, 24 Dec, 27 Dec, 28 Dec, 29 Dec, 30 Dec, 31 Dec, 2019: 3 Jan, 4 Jan, 5 Jan, 6 Jan, 7 Jan, 8 Jan, 9 Jan, 11 Jan, 12 Jan, 13 Jan, 14 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 Jan, 31 Jan, 1st Feb, 2nd Feb, 5th, 6th Feb, 7th Feb, 9th Feb, 10th, 11th, 12th, 13th Feb, 14th Feb, 15th Feb, 16th Feb, 18th Feb, 19th Feb, 20th Feb, 21st Feb, 22nd Feb, 23rd Feb, 24th Feb, 25th Feb, 26th, 27th, 28th, 1st March, 2nd, 3rd, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 18th, 19th, 24th, 25th, 26th, 27th, 29th, 30th, 31st, 1st April, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 15th, 16th

Name*	Gabriella Nizam
Post	Environmental Advisor
Signature	
Date	25/04/2019

* 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.

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	19/04/2019 13.59-14.59, 15.59-16.59, 18.59-19.59, 20.59-21.59, 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/m ³
Measured value and uncertainty	19/04/2019 13.59-14.59, Max Hourly Av. = 170.6 mg/m ³ , Max 95%ile Av. = 168.23 mg/m ³ 15.59-16.59, Max Hourly Av. = 168.6 mg/m ³ , Max 95%ile Av. = 164.655 mg/m ³ 18.59-19.59, Max Hourly Av. = 164.9 mg/m ³ , Max 95%ile Av. = 160 mg/m ³ 20.59-21.59, Max Hourly Av. = 160 mg/m ³ , Max 95%ile Av. = 153.54 mg/m ³ 22.59-23.59, Max Hourly Av. = 153.2 mg/m ³ , Max 95%ile Av. = 130.34 mg/m ³
Date and Time of Monitoring	19/04/2019 13.59-14.59, 15.59-16.59, 18.59-19.59, 20.59-21.59, 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.	During the time of the breaches trim delays were experienced. This means the furnace roof is open with power off and post combustion was not completed. Alongside this were delays in the process, these delays can result in the EAF power being off which does not allow for post-combustion of CO to be released.
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.	2017, , 27 April, 05 May, 08 Jun, 09 June, 28 Jun, 01 Jul, 02 Jul, 06 Jul, 07 Jul, 08 Jul, 09 Jul, 10 Jul, 11 Jul, 12 Jul, 14 Jul, 16 Jul, 25 Jul, 27 Jul, 28 Jul, 16 Aug, 17 Aug, 18 Aug, 24 Aug, 29 Aug, 30 Aug, 02 Sept, 03 Sept, 04 Sept, 05 Sept, 06 Sept, 08 Sept, 09 Sept, 10 Sept, 15 Sept, 16 Sept, 17 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 22 Sept, 23 Sept, 24 Sept, 25 Sept, 26 Sept, 27 Sept, 28 Sept, 29 Sept, 01 Oct, 02 Oct, 04 Oct, 05 Oct, 06 Oct, 08 Oct, 09 Oct, 10 Oct, 11 Oct, 12 Oct, 19 Oct, 20 Oct, 21 Oct, 22 Oct, 23 Oct, 24 Oct, 26 Oct, 27 Oct, 28 Oct, 30 Oct, 31 Oct, 01 Nov, 02 Nov, 06 Nov, 07 Nov, 10 Nov, 13 Nov, 14 Nov, 15 Nov, 16 Nov, 17 Nov, 18 Nov, 19 Nov, 20 Nov, 21 Nov, 22 Nov, 23 Nov, 24 Nov, 25 Nov, 26 Nov, 27 Nov, 28 Nov, 29 Nov, 30 Nov, 1 Dec, 2 Dec, 3 Dec, 4 Dec, 5 Dec, 9 Dec, 10 Dec, 11 Dec, 12 Dec, 14 Dec, 15 Dec, 16 Dec, 17 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec 05 Jan 2018, 06 Jan, 07 Jan, 08 Jan, 09 Jan, 10 Jan, 11 Jan, 12 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan, 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 Jan, 31 Jan, 01 Feb, 02 Feb, 03 Feb, 04 Feb, 05 Feb, 06 Feb, 07 Feb, 08 Feb, 09 Feb, 10 Feb, 11 Feb, 12 Feb, 13 Feb, 14 Feb, 15 Feb, 16 Feb, 17 Feb, 18 Feb, 19 Feb, 20 Feb, 21 Feb, 22 Feb, 23 Feb, 24 Feb, 25 Feb, 26 Feb, 27 Feb, 28 Feb, 05 Mar, 06 Mar, 07 Mar, 08 Mar, 09 Mar, 10 Mar, 11 Mar, 12 Mar, 13 Mar, 14 Mar, 15 Mar, 16 Mar, 17 Mar, 18 Mar, 19 Mar, 20 Mar, 21 Mar, 26 Mar, 27 Mar, 28 Mar, 29 Mar, 30 Mar, 31 Mar, 01 Apr, 02 Apr, 03 Apr, 04 Apr, 05 Apr, 06 Apr, 07 Apr, 08 Apr, 09 Apr, 10 Apr, 11 Apr, 12 Apr, 13 Apr, 14 Apr, 15 Apr, 16 Apr, 17 Apr, 18 Apr, 19 Apr, 20 Apr, 25 Apr, 26 Apr, 28 Apr, 29 Apr, 30 Apr, 01 May, 02 May, 03 May, 04 May, 05 May, 23 May, 24 May, 25 May, 28 May, 31 May, 1 June, 3 June, 4 June, 5 June, 9 June, 10 June, 11 June, 12 June, 15 June, 19 June, 20 June, 26 June, 27 June, 11 Jul, 12 Jul, 25 Jul, 31 Jul, 2 Aug, 4 Aug, 8 Aug, 10 Aug, 12 Aug, 13 Aug, 14 Aug, 15 Aug, 22 Aug, 24 Aug, 25 Aug, 26 Aug, 27 Aug, 29 Aug, 30 Aug, 31 Aug, 2 Sept, 3 Sept, 4 Sept, 5 Sept, 6 Sept, 11 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 27 Sept, 1 Oct, 2 Oct, 3 Oct, 4 Oct, 5 Oct, 6 Oct, 7 Oct, 8 Oct, 9 Oct, 10 Oct, 24 Oct, 26 Oct, 29 Oct, 30 Oct, 31 Oct, 3 Nov, 4 Nov, 5 Nov, 6 Nov, 7 Nov, 24 Nov, 30 Nov, 12 Dec, 13 Dec, 14 Dec, 16 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec, 24 Dec, 27 Dec, 28 Dec, 29 Dec, 30 Dec, 31 Dec, 2019: 3 Jan, 4 Jan, 5 Jan, 6 Jan, 7 Jan, 8 Jan, 9 Jan, 11 Jan, 12 Jan, 13 Jan, 14 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 Jan, 1 st Feb, 2 nd Feb, 5 th , 6 th Feb, 7 th Feb, 9 th Feb, 10 th , 11 th , 12 th , 13 th Feb, 14 th Feb, 15 th Feb, 16 th Feb, 18 th Feb, 19 th Feb, 20 th Feb, 21 st Feb, 22 nd Feb, 23 rd Feb, 24 th Feb, 25 th Feb, 26 th , 27 th , 28 th , 1 st March, 2 nd , 3 rd , 5 th , 6 th , 7 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 14 th , 15 th , 16 th , 18 th , 19 th , 24 th , 25 th , 26 th , 27 th , 29 th , 30 th , 31 st , 1 st April, 2 nd , 3 rd , 4 th , 5 th , 6 th , 7 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 15 th , 16 th , 18 th

Name*	Gabriella Nizam
Post	Environmental Advisor
Signature	
Date	25/04/2019

* 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.

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	20/04/2019 00.59-01.59, 01.59-02.59, 02.59-03.59, 09.59-10.59, 10.59-11.59, 14.59-15.59, 15.59-16.59, 17.59-18.59, 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/m ³
Measured value and uncertainty	20/04/2019 00.59-01.59, Max Hourly Av. = 170.1 mg/m ³ , Max 95%ile Av. = 168.74 mg/m ³ 01.59-02.59, Max Hourly Av. = 160 mg/m ³ , Max 95%ile Av. = 157.68 mg/m ³ 02.59-03.59, Max Hourly Av. = 170.1 mg/m ³ , Max 95%ile Av. = 168.74 mg/m ³ 09.59-10.59, Max Hourly Av. = 156.9 mg/m ³ , Max 95%ile Av. = 156.13 mg/m ³ 10.59-11.59, Max Hourly Av. = 174.3 mg/m ³ , Max 95%ile Av. = 170.31 mg/m ³ 14.59-15.59, Max Hourly Av. = 168.5 mg/m ³ , Max 95%ile Av. = 161.7 mg/m ³ 15.59-16.59, Max Hourly Av. = 181.2 mg/m ³ , Max 95%ile Av. = 176.68 mg/m ³ 17.59-18.59, Max Hourly Av. = 176.8 mg/m ³ , Max 95%ile Av. = 174.3 mg/m ³ 20.59-21.59, Max Hourly Av. = 185.4 mg/m ³ , Max 95%ile Av. = 180.76 mg/m ³ 21.59-22.59, Max Hourly Av. = 155.8 mg/m ³ , Max 95%ile Av. = 148.98 mg/m ³
Date and Time of Monitoring	20/04/2019 00.59-01.59, 01.59-02.59, 02.59-03.59, 09.59-10.59, 10.59-11.59, 14.59-15.59, 15.59-16.59, 17.59-18.59, 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.	During the time of the breaches trim delays were experienced. This means the furnace roof is open with power off and post combustion not being completed. In addition, oxygen was re-blown into the EAF to refine the liquid steel. This additional oxygen reacts with available carbon to form CO. Alongside this were delays in the process, these delays can result in the EAF power being off which does not allow for post-combustion of CO to be released..
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.	2017, , 27 April, 05 May, 08 Jun, 09 June, 28 Jun, 01 Jul, 02 Jul, 06 Jul, 07 Jul, 08 Jul, 09 Jul, 10 Jul, 11 Jul, 12 Jul, 14 Jul, 16 Jul, 25 Jul, 27 Jul, 28 Jul, 16 Aug, 17 Aug, 18 Aug, 24 Aug, 29 Aug, 30 Aug, 02 Sept, 03 Sept, 04 Sept, 05 Sept, 06 Sept, 08 Sept, 09 Sept, 10 Sept, 15 Sept, 16 Sept, 17 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 22 Sept, 23 Sept, 24 Sept, 25 Sept, 26 Sept, 27 Sept, 28 Sept, 29 Sept, 01 Oct, 02 Oct, 04 Oct, 05 Oct, 06 Oct, 08 Oct, 09 Oct, 10 Oct, 11 Oct, 12 Oct, 19 Oct, 20 Oct, 21 Oct, 22 Oct, 23 Oct, 24 Oct, 26 Oct, 27 Oct, 28 Oct, 30 Oct, 31 Oct, 01 Nov, 02 Nov, 06 Nov, 07 Nov, 10 Nov, 13 Nov, 14 Nov, 15 Nov, 16 Nov, 17 Nov, 18 Nov, 19 Nov, 20 Nov, 21 Nov, 22 Nov, 23 Nov, 24 Nov, 25 Nov, 26 Nov, 27 Nov, 28 Nov, 29 Nov, 30 Nov, 1 Dec, 2 Dec, 3 Dec, 4 Dec, 5 Dec, 9 Dec, 10 Dec, 11 Dec, 12 Dec, 14 Dec, 15 Dec, 16 Dec, 17 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec 05 Jan 2018, 06 Jan, 07 Jan, 08 Jan, 09 Jan, 10 Jan, 11 Jan, 12 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan, 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 Jan, 31 Jan, 01 Feb, 02 Feb, 03 Feb, 04 Feb, 05 Feb, 06 Feb, 07 Feb, 08 Feb, 09 Feb, 10 Feb, 11 Feb, 12 Feb, 13 Feb, 14 Feb, 15 Feb, 16 Feb, 17 Feb, 18 Feb, 19 Feb, 20 Feb, 21 Feb, 22 Feb, 23 Feb, 24 Feb, 25 Feb, 26 Feb, 27 Feb, 28 Feb, 05 Mar, 06 Mar, 07 Mar, 08 Mar, 09 Mar, 10 Mar, 11 Mar, 12 Mar, 13 Mar, 14 Mar, 15 Mar, 16 Mar, 17 Mar, 18 Mar, 19 Mar, 20 Mar, 21 Mar, 26 Mar, 27 Mar, 28 Mar, 29 Mar, 30 Mar, 31 Mar, 01 Apr, 02 Apr, 03 Apr, 04 Apr, 05 Apr, 06 Apr, 07 Apr, 08 Apr, 09 Apr, 10 Apr, 11 Apr, 12 Apr, 13 Apr, 14 Apr, 15 Apr, 16 Apr, 17 Apr, 18 Apr, 19 Apr, 20 Apr, 25 Apr, 26 Apr, 28 Apr, 29 Apr, 30 Apr, 01 May, 02 May, 03 May, 04 May, 05 May, 23 May, 24 May, 25 May, 28 May, 31 May, 1 June, 3 June, 4 June, 5 June, 9 June, 10 June, 11 June, 12 June, 15 June, 19 June, 20 June, 26 June, 27 June, 11 Jul, 12 Jul, 25 Jul, 31 Jul, 2 Aug, 4 Aug, 8 Aug, 10 Aug, 12 Aug, 13 Aug, 14 Aug, 15 Aug, 22 Aug, 24 Aug, 25 Aug, 26 Aug, 27 Aug, 29 Aug, 30 Aug, 31 Aug, 2 Sept, 3 Sept, 4 Sept, 5 Sept, 6 Sept, 11 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 27 Sept, 1 Oct, 2 Oct, 3 Oct, 4 Oct, 5 Oct, 6 Oct, 7 Oct, 8 Oct, 9 Oct, 10 Oct, 24 Oct, 26 Oct, 29 Oct, 30 Oct, 31 Oct, 3 Nov, 4 Nov, 5 Nov, 6 Nov, 7 Nov, 24 Nov, 30 Nov, 12 Dec, 13 Dec, 14 Dec, 16 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec, 24 Dec, 27 Dec, 28 Dec, 29 Dec, 30 Dec, 31 Dec, 2019: 3 Jan, 4 Jan, 5 Jan, 6 Jan, 7 Jan, 8 Jan, 9 Jan, 11 Jan, 12 Jan, 13 Jan, 14 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 th Jan, 1 st Feb, 2 nd Feb, 5 th , 6 th Feb, 7 th Feb, 9 th Feb, 10 th , 11 th , 12 th , 13 th Feb, 14 th Feb, 15 th Feb, 16 th Feb, 18 th Feb, 19 th Feb, 20 th Feb, 21 st Feb, 22 nd Feb, 23 rd Feb, 24 th Feb, 25 th Feb, 26 th , 27 th , 28 th , 1 st March, 2 nd , 3 rd , 5 th , 6 th , 7 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 14 th , 15 th , 16 th , 18 th , 19 th , 24 th , 25 th , 26 th , 27 th , 29 th , 30 th , 31 st , 1 st April, 2 nd , 3 rd , 4 th , 5 th , 6 th , 7 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 15 th , 16 th , 18 th , 19 th

Name*	Gabriella Nizam
Post	Environmental Advisor
Signature	
Date	25/04/2019

* 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.

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	21/04/2019 23.59-00.59, 00.59-01.59, 03.59-04.59, 05.59-06.59, 06.59-07.59, 07.59-08.59, 08.59-09.59, 09.59-10.59, 10.59-11.59, 14.59-15.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 20.59-21.59, 21.59-22.59, 22.59-23.59

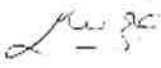
(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the 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/m ³
Measured value and uncertainty	21/04/2019 23.59-00.59, Max Hourly Av. = 162.1 mg/m ³ , Max 95%ile Av. = 159.18 mg/m ³ 00.59-01.59, Max Hourly Av. = 172.5 mg/m ³ , Max 95%ile Av. = 167.3 mg/m ³ 03.59-04.59, Max Hourly Av. = 153.5 mg/m ³ , Max 95%ile Av. = 152.03 mg/m ³ 05.59-06.59, Max Hourly Av. = 180.8 mg/m ³ , Max 95%ile Av. = 180.73 mg/m ³ 06.59-07.59, Max Hourly Av. = 179 mg/m ³ , Max 95%ile Av. = 175.43 mg/m ³ 07.59-08.59, Max Hourly Av. = 192.6 mg/m ³ , Max 95%ile Av. = 183.75 mg/m ³ 08.59-09.59, Max Hourly Av. = 180.7 mg/m ³ , Max 95%ile Av. = 180.31 mg/m ³ 09.59-10.59, Max Hourly Av. = 223.2 mg/m ³ , Max 95%ile Av. = 203.51 mg/m ³ 10.59-11.59, Max Hourly Av. = 203.6 mg/m ³ , Max 95%ile Av. = 202.66 mg/m ³ 14.59-15.59, Max Hourly Av. = 180.1 mg/m ³ , Max 95%ile Av. = 179.44 mg/m ³ 15.59-16.59, Max Hourly Av. = 202.7 mg/m ³ , Max 95%ile Av. = 201.9 mg/m ³ 16.59-17.59, Max Hourly Av. = 196.8 mg/m ³ , Max 95%ile Av. = 193.44 mg/m ³ 17.59-18.59, Max Hourly Av. = 155.6 mg/m ³ , Max 95%ile Av. = 154.76 mg/m ³ 20.59-21.59, Max Hourly Av. = 197.1 mg/m ³ , Max 95%ile Av. = 196.85 mg/m ³ 21.59-22.59, Max Hourly Av. = 201.9 mg/m ³ , Max 95%ile Av. = 199.62 mg/m ³ 22.59-23.59, Max Hourly Av. = 199.5 mg/m ³ , Max 95%ile Av. = 197.34 mg/m ³
Date and Time of Monitoring	21/04/2019 23.59-00.59, 00.59-01.59, 03.59-04.59, 05.59-06.59, 06.59-07.59, 07.59-08.59, 08.59-09.59, 09.59-10.59, 10.59-11.59, 14.59-15.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 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.	During the time of the breaches there were delays for trimming, oxygen reblows and delays due to engineering issues. These delays can result in the EAF power being off which does not allow for post-combustion of CO to be released.
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.	2017, , 27 April, 05 May, 08 Jun, 09 June, 28 Jun, 01 Jul, 02 Jul, 06 Jul, 07 Jul, 08 Jul, 09 Jul, 10 Jul, 11 Jul, 12 Jul, 14 Jul, 16 Jul, 25 Jul, 27 Jul, 28 Jul, 16 Aug, 17 Aug, 18 Aug, 24 Aug, 29 Aug, 30 Aug, 02 Sept, 03 Sept, 04 Sept, 05 Sept, 06 Sept, 08 Sept, 09 Sept, 10 Sept, 15 Sept, 16 Sept, 17 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 22 Sept, 23 Sept, 24 Sept, 25 Sept, 26 Sept, 27 Sept, 28 Sept, 29 Sept, 01 Oct, 02 Oct, 04 Oct, 05 Oct, 06 Oct, 08 Oct, 09 Oct, 10 Oct, 11 Oct, 12 Oct, 19 Oct, 20 Oct, 21 Oct, 22 Oct, 23 Oct, 24 Oct, 26 Oct, 27 Oct, 28 Oct, 30 Oct, 31 Oct, 01 Nov, 02 Nov, 06 Nov, 07 Nov, 10 Nov, 13 Nov, 14 Nov, 15 Nov, 16 Nov, 17 Nov, 18 Nov, 19 Nov, 20 Nov, 21 Nov, 22 Nov, 23 Nov, 24 Nov, 25 Nov, 26 Nov, 27 Nov, 28 Nov, 29 Nov, 30 Nov, 1 Dec, 2 Dec, 3 Dec, 4 Dec, 5 Dec, 9 Dec, 10 Dec, 11 Dec, 12 Dec, 14 Dec, 15 Dec, 16 Dec, 17 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec 05 Jan 2018, 06 Jan, 07 Jan, 08 Jan, 09 Jan, 10 Jan, 11 Jan, 12 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan, 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 Jan, 31 Jan, 01 Feb, 02 Feb, 03 Feb, 04 Feb, 05 Feb, 06 Feb, 07 Feb, 08 Feb, 09 Feb, 10 Feb, 11 Feb, 12 Feb, 13 Feb, 14 Feb, 15 Feb, 16 Feb, 17 Feb, 18 Feb, 19 Feb, 20 Feb, 21 Feb, 22 Feb, 23 Feb, 24 Feb, 25 Feb, 26 Feb, 27 Feb, 28 Feb, 05 Mar, 06 Mar, 07 Mar, 08 Mar, 09 Mar, 10 Mar, 11 Mar, 12 Mar, 13 Mar, 14 Mar, 15 Mar, 16 Mar, 17 Mar, 18 Mar, 19 Mar, 20 Mar, 21 Mar, 26 Mar, 27 Mar, 28 Mar, 29 Mar, 30 Mar, 31 Mar, 01 Apr, 02 Apr, 03 Apr, 04 Apr, 05 Apr, 06 Apr, 07 Apr, 08 Apr, 09 Apr, 10 Apr, 11 Apr, 12 Apr, 13 Apr, 14 Apr, 15 Apr, 16 Apr, 17 Apr, 18 Apr, 19 Apr, 20 Apr, 25 Apr, 26 Apr, 28 Apr, 29 Apr, 30 Apr, 01 May, 02 May, 03 May, 04 May, 05 May, 23 May, 24 May, 25 May, 28 May, 31 May, 1 June, 3 June, 4 June, 5 June, 9 June, 10 June, 11 June, 12 June, 15 June, 19 June, 20 June, 26 June, 27 June, 11 Jul, 12 Jul, 25 Jul, 31 Jul, 2 Aug, 4 Aug, 8 Aug, 10 Aug, 12 Aug, 13 Aug, 14 Aug, 15 Aug, 22 Aug, 24 Aug, 25 Aug, 26 Aug, 27 Aug, 29 Aug, 30 Aug, 31 Aug, 2 Sept, 3 Sept, 4 Sept, 5 Sept, 6 Sept, 11 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 27 Sept, 1 Oct, 2 Oct, 3 Oct, 4 Oct, 5 Oct, 6 Oct, 7 Oct, 8 Oct, 9 Oct, 10 Oct, 24 Oct, 26 Oct, 29 Oct, 30 Oct, 31 Oct, 3 Nov, 4 Nov, 5 Nov, 6 Nov, 7 Nov, 24 Nov, 30 Nov, 12 Dec, 13 Dec, 14 Dec, 16 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec, 24 Dec, 27 Dec, 28 Dec, 29 Dec, 30 Dec, 31 Dec, 2019: 3 Jan, 4 Jan, 5 Jan, 6 Jan, 7 Jan, 8 Jan, 9 Jan, 11 Jan, 12 Jan, 13 Jan, 14 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 Jan, 1 st Feb, 2 nd Feb, 5 th , 6 th Feb, 7 th Feb, 9 th Feb, 10 th , 11 th , 12 th , 13 th Feb, 14 th Feb, 15 th Feb, 16 th Feb, 18 th Feb, 19 th Feb, 20 th Feb, 21 st Feb, 22 nd Feb, 23 rd Feb, 24 th Feb, 25 th Feb, 26 th , 27 th , 28 th , 1 st March, 2 nd , 3 rd , 5 th , 6 th , 7 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 14 th , 15 th , 16 th , 18 th , 19 th , 24 th , 25 th , 26 th , 27 th , 29 th , 30 th , 31 st , 1 st April, 2 nd , 3 rd , 4 th , 5 th , 6 th , 7 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 15 th , 16 th , 18 th , 19 th , 20 th

Name*	Gabriella Nizam
Post	Environmental Advisor
Signature	
Date	25/04/2019

* 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.

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	22/04/2019 00.59-01.59, 04.59-05.59, 05.59-06.59, 07.59-08.59, 08.59-09.59, 09.59-10.59, 12.59-13.59

(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/m ³
Measured value and uncertainty	22/04/2019 00.59-01.59, Max Hourly Av. = 163.6 mg/m ³ , Max 95%ile Av. = 160.54 mg/m ³ 04.59-05.59, Max Hourly Av. = 160 mg/m ³ , Max 95%ile Av. = 151.52 mg/m ³ 05.59-06.59, Max Hourly Av. = 179.4 mg/m ³ , Max 95%ile Av. = 174.26 mg/m ³ 07.59-08.59, Max Hourly Av. = 174.4 mg/m ³ , Max 95%ile Av. = 171.5 mg/m ³ 08.59-09.59, Max Hourly Av. = 171.5 mg/m ³ , Max 95%ile Av. = 168.94 mg/m ³ 09.59-10.59, Max Hourly Av. = 168.8 mg/m ³ , Max 95%ile Av. = 164.12 mg/m ³ 12.59-13.59, Max Hourly Av. = 192.6 mg/m ³ , Max 95%ile Av. = 178.9 mg/m ³
Date and Time of Monitoring	22/04/2019 00.59-01.59, 04.59-05.59, 05.59-06.59, 07.59-08.59, 08.59-09.59, 09.59-10.59, 12.59-13.59
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.	During the time of the breaches there were delays for trimming, delays due to engineering issues. These delays can result in the EAF power being off which does not allow for post-combustion of CO to be released.
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.	2017, , 27 April, 05 May, 08 Jun, 09 June, 28 Jun, 01 Jul, 02 Jul, 06 Jul, 07 Jul, 08 Jul, 09 Jul, 10 Jul, 11 Jul, 12 Jul, 14 Jul, 16 Jul, 25 Jul, 27 Jul, 28 Jul, 16 Aug, 17 Aug, 18 Aug, 24 Aug, 29 Aug, 30 Aug, 02 Sept, 03 Sept, 04 Sept, 05 Sept, 06 Sept, 08 Sept, 09 Sept, 10 Sept, 15 Sept, 16 Sept, 17 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 22 Sept, 23 Sept, 24 Sept, 25 Sept, 26 Sept, 27 Sept, 28 Sept, 29 Sept, 01 Oct, 02 Oct, 04 Oct, 05 Oct, 06 Oct, 08 Oct, 09 Oct, 10 Oct, 11 Oct, 12 Oct, 19 Oct, 20 Oct, 21 Oct, 22 Oct, 23 Oct, 24 Oct, 26 Oct, 27 Oct, 28 Oct, 30 Oct, 31 Oct, 01 Nov, 02 Nov, 06 Nov, 07 Nov, 10 Nov, 13 Nov, 14 Nov, 15 Nov, 16 Nov, 17 Nov, 18 Nov, 19 Nov, 20 Nov, 21 Nov, 22 Nov, 23 Nov, 24 Nov, 25 Nov, 26 Nov, 27 Nov, 28 Nov, 29 Nov, 30 Nov, 1 Dec, 2 Dec, 3 Dec, 4 Dec, 5 Dec, 9 Dec, 10 Dec, 11 Dec, 12 Dec, 14 Dec, 15 Dec, 16 Dec, 17 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec 05 Jan 2018, 06 Jan, 07 Jan, 08 Jan, 09 Jan, 10 Jan, 11 Jan, 12 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan, 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 Jan, 31 Jan, 01 Feb, 02 Feb, 03 Feb, 04 Feb, 05 Feb, 06 Feb, 07 Feb, 08 Feb, 09 Feb, 10 Feb, 11 Feb, 12 Feb, 13 Feb, 14 Feb, 15 Feb, 16 Feb, 17 Feb, 18 Feb, 19 Feb, 20 Feb, 21 Feb, 22 Feb, 23 Feb, 24 Feb, 25 Feb, 26 Feb, 27 Feb, 28 Feb, 05 Mar, 06 Mar, 07 Mar, 08 Mar, 09 Mar, 10 Mar, 11 Mar, 12 Mar, 13 Mar, 14 Mar, 15 Mar, 16 Mar, 17 Mar, 18 Mar, 19 Mar, 20 Mar, 21 Mar, 26 Mar, 27 Mar, 28 Mar, 29 Mar, 30 Mar, 31 Mar, 01 Apr, 02 Apr, 03 Apr, 04 Apr, 05 Apr, 06 Apr, 07 Apr, 08 Apr, 09 Apr, 10 Apr, 11 Apr, 12 Apr, 13 Apr, 14 Apr, 15 Apr, 16 Apr, 17 Apr, 18 Apr, 19 Apr, 20 Apr, 25 Apr, 26 Apr, 28 Apr, 29 Apr, 30 Apr, 01 May, 02 May, 03 May, 04 May, 05 May, 23 May, 24 May, 25 May, 28 May, 31 May, 1 June, 3 June, 4 June, 5 June, 9 June, 10 June, 11 June, 12 June, 15 June, 19 June, 20 June, 26 June, 27 June, 11 Jul, 12 Jul, 25 Jul, 31 Jul, 2 Aug, 4 Aug, 8 Aug, 10 Aug, 12 Aug, 13 Aug, 14 Aug, 15 Aug, 22 Aug, 24 Aug, 25 Aug, 26 Aug, 27 Aug, 29 Aug, 30 Aug, 31 Aug, 2 Sept, 3 Sept, 4 Sept, 5 Sept, 6 Sept, 11 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 27 Sept, 1 Oct, 2 Oct, 3 Oct, 4 Oct, 5 Oct, 6 Oct, 7 Oct, 8 Oct, 9 Oct, 10 Oct, 24 Oct, 26 Oct, 29 Oct, 30 Oct, 31 Oct, 3 Nov, 4 Nov, 5 Nov, 6 Nov, 7 Nov, 24 Nov, 30 Nov, 12 Dec, 13 Dec, 14 Dec, 16 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec, 24 Dec, 27 Dec, 28 Dec, 29 Dec, 30 Dec, 31 Dec, 2019: 3 Jan, 4 Jan, 5 Jan, 6 Jan, 7 Jan, 8 Jan, 9 Jan, 11 Jan, 12 Jan, 13 Jan, 14 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 Jan, 1 st Feb, 2 nd Feb, 5 th , 6 th Feb, 7 th Feb, 9 th Feb, 10 th , 11 th , 12 th , 13 th Feb, 14 th Feb, 15 th Feb, 16 th Feb, 18 th Feb, 19 th Feb, 20 th Feb, 21 st Feb, 22 nd Feb, 23 rd Feb, 24 th Feb, 25 th Feb, 26 th , 27 th , 28 th , 1 st March, 2 nd , 3 rd , 5 th , 6 th , 7 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 14 th , 15 th , 16 th , 18 th , 19 th , 24 th , 25 th , 26 th , 27 th , 29 th , 30 th , 31 st , 1 st April, 2 nd , 3 rd , 4 th , 5 th , 6 th , 7 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 15 th , 16 th , 18 th , 19 th , 20 th , 21 st

Name*	Gabriella Nizam
Post	Environmental Advisor
Signature	

Date	25/04/2019
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* 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.

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	23/04/2019 00.59-01.59, 02.59-03.59, 05.59-06.59, 06.59-07.59, 07.59-08.59, 09.59-10.59, 14.59-15.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 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

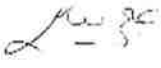
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission /	
Description of the failure or accident.	

(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/m ³
Measured value and uncertainty	23/04/2019 00.59-01.59, Max Hourly Av. = 177.1 mg/m ³ , Max 95%ile Av. = 176.76 mg/m ³ 02.59-03.59, Max Hourly Av. = 153.8 mg/m ³ , Max 95%ile Av. = 150.6 mg/m ³ 05.59-06.59, Max Hourly Av. = 156.2 mg/m ³ , Max 95%ile Av. = 154.88 mg/m ³ 06.59-07.59, Max Hourly Av. = 157.3 mg/m ³ , Max 95%ile Av. = 156.64 mg/m ³ 07.59-08.59, Max Hourly Av. = 162.8 mg/m ³ , Max 95%ile Av. = 160.77 mg/m ³ 09.59-10.59, Max Hourly Av. = 159.9 mg/m ³ , Max 95%ile Av. = 158.21 mg/m ³ 14.59-15.59, Max Hourly Av. = 204.8 mg/m ³ , Max 95%ile Av. = 179.87 mg/m ³ 15.59-16.59, Max Hourly Av. = 218 mg/m ³ , Max 95%ile Av. = 216.4 mg/m ³ 16.59-17.59, Max Hourly Av. = 164.4 mg/m ³ , Max 95%ile Av. = 163.2 mg/m ³ 17.59-18.59, Max Hourly Av. = 216.4 mg/m ³ , Max 95%ile Av. = 205.38 mg/m ³ 19.59-20.59, Max Hourly Av. = 219.4 mg/m ³ , Max 95%ile Av. = 217.92 mg/m ³ 21.59-22.59, Max Hourly Av. = 176.7 mg/m ³ , Max 95%ile Av. = 166.86 mg/m ³ 22.59-23.59, Max Hourly Av. = 224.5 mg/m ³ , Max 95%ile Av. = 219.26 mg/m ³
Date and Time of Monitoring	23/04/2019 00.59-01.59, 02.59-03.59, 05.59-06.59, 06.59-07.59, 07.59-08.59, 09.59-10.59, 14.59-15.59, 15.59-16.59, 16.59-17.59, 17.59-18.59, 19.59-20.59, 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	
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Part B - to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	During the time of the breaches there were delays for trimming, oxygen reblows and delays due to engineering issues. These delays can result in the EAF power being off which does not allow for post-combustion of CO to be released. In addition oxygen was reblown into the EAF to refine the liquid steel. This additional oxygen reacts with available carbon to form CO.
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.	2017, , 27 April, 05 May, 08 Jun, 09 June, 28 Jun, 01 Jul, 02 Jul, 06 Jul, 07 Jul, 08 Jul, 09 Jul, 10 Jul, 11 Jul, 12 Jul, 14 Jul, 16 Jul, 25 Jul, 27 Jul, 28 Jul, 16 Aug, 17 Aug, 18 Aug, 24 Aug, 29 Aug, 30 Aug, 02 Sept, 03 Sept, 04 Sept, 05 Sept, 06 Sept, 08 Sept, 09 Sept, 10 Sept, 15 Sept, 16 Sept, 17 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 22 Sept, 23 Sept, 24 Sept, 25 Sept, 26 Sept, 27 Sept, 28 Sept, 29 Sept, 01 Oct, 02 Oct, 04 Oct, 05 Oct, 06 Oct, 08 Oct, 09 Oct, 10 Oct, 11 Oct, 12 Oct, 19 Oct, 20 Oct, 21 Oct, 22 Oct, 23 Oct, 24 Oct, 26 Oct, 27 Oct, 28 Oct, 30 Oct, 31 Oct, 01 Nov, 02 Nov, 06 Nov, 07 Nov, 10 Nov, 13 Nov, 14 Nov, 15 Nov, 16 Nov, 17 Nov, 18 Nov, 19 Nov, 20 Nov, 21 Nov, 22 Nov, 23 Nov, 24 Nov, 25 Nov, 26 Nov, 27 Nov, 28 Nov, 29 Nov, 30 Nov, 1 Dec, 2 Dec, 3 Dec, 4 Dec, 5 Dec, 9 Dec, 10 Dec, 11 Dec, 12 Dec, 14 Dec, 15 Dec, 16 Dec, 17 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec 05 Jan 2018, 06 Jan, 07 Jan, 08 Jan, 09 Jan, 10 Jan, 11 Jan, 12 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan, 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 Jan, 31 Jan, 01 Feb, 02 Feb, 03 Feb, 04 Feb, 05 Feb, 06 Feb, 07 Feb, 08 Feb, 09 Feb, 10 Feb, 11 Feb, 12 Feb, 13 Feb, 14 Feb, 15 Feb, 16 Feb, 17 Feb, 18 Feb, 19 Feb, 20 Feb, 21 Feb, 22 Feb, 23 Feb, 24 Feb, 25 Feb, 26 Feb, 27 Feb, 28 Feb, 05 Mar, 06 Mar, 07 Mar, 08 Mar, 09 Mar, 10 Mar, 11 Mar, 12 Mar, 13 Mar, 14 Mar, 15 Mar, 16 Mar, 17 Mar, 18 Mar, 19 Mar, 20 Mar, 21 Mar, 26 Mar, 27 Mar, 28 Mar, 29 Mar, 30 Mar, 31 Mar, 01 Apr, 02 Apr, 03 Apr, 04 Apr, 05 Apr, 06 Apr, 07 Apr, 08 Apr, 09 Apr, 10 Apr, 11 Apr, 12 Apr, 13 Apr, 14 Apr, 15 Apr, 16 Apr, 17 Apr, 18 Apr, 19 Apr, 20 Apr, 25 Apr, 26 Apr, 28 Apr, 29 Apr, 30 Apr, 01 May, 02 May, 03 May, 04 May, 05 May, 23 May, 24 May, 25 May, 28 May, 31 May, 1 June, 3 June, 4 June, 5 June, 9 June, 10 June, 11 June, 12 June, 15 June, 19 June, 20 June, 26 June, 27 June, 11 Jul, 12 Jul, 25 Jul, 31 Jul, 2 Aug, 4 Aug, 8 Aug, 10 Aug, 12 Aug, 13 Aug, 14 Aug, 15 Aug, 22 Aug, 24 Aug, 25 Aug, 26 Aug, 27 Aug, 29 Aug, 30 Aug, 31 Aug, 2 Sept, 3 Sept, 4 Sept, 5 Sept, 6 Sept, 11 Sept, 18 Sept, 19 Sept, 20 Sept, 21 Sept, 27 Sept, 1 Oct, 2 Oct, 3 Oct, 4 Oct, 5 Oct, 6 Oct, 7 Oct, 8 Oct, 9 Oct, 10 Oct, 24 Oct, 26 Oct, 29 Oct, 30 Oct, 31 Oct, 3 Nov, 4 Nov, 5 Nov, 6 Nov, 7 Nov, 24 Nov, 30 Nov, 12 Dec, 13 Dec, 14 Dec, 16 Dec, 18 Dec, 19 Dec, 20 Dec, 21 Dec, 24 Dec, 27 Dec, 28 Dec, 29 Dec, 30 Dec, 31 Dec, 2019: 3 Jan, 4 Jan, 5 Jan, 6 Jan, 7 Jan, 8 Jan, 9 Jan, 11 Jan, 12 Jan, 13 Jan, 14 Jan, 15 Jan, 16 Jan, 17 Jan, 18 Jan 19 Jan, 20 Jan, 21 Jan, 22 Jan, 23 Jan, 24 Jan, 25 Jan, 26 Jan, 27 Jan, 28 Jan, 29 Jan, 30 th Jan, 1 st Feb, 2 nd Feb, 5 th , 6 th Feb, 7 th Feb, 9 th Feb, 10 th , 11 th , 12 th , 13 th Feb, 14 th Feb, 15 th Feb, 16 th Feb, 18 th Feb, 19 th Feb, 20 th Feb, 21 st Feb, 22 nd Feb, 23 rd Feb, 24 th Feb, 25 th Feb, 26 th , 27 th , 28 th , 1 st March, 2 nd , 3 rd , 5 th , 6 th , 7 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 14 th , 15 th , 16 th , 18 th , 19 th , 24 th , 25 th , 26 th , 27 th , 29 th , 30 th , 31 st , 1 st April, 2 nd , 3 rd , 4 th , 5 th , 6 th , 7 th , 8 th , 9 th , 10 th , 11 th , 12 th , 13 th , 15 th , 16 th , 18 th , 19 th , 20 th , 21 st , 22 nd
Name*	Gabriella Nizam

Post	Environmental Advisor
Signature	
Date	25/04/2019

* authorised to sign on behalf of CELSA Manufacturing UK Limited