

## 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 | 31/07/2016, 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, 14.59-15.59, 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. |
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**(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>(b) Notification requirements for the breach of a limit</b>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>To be notified within 24 hours of detection unless otherwise specified below</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Emission point reference/ source                                                    | <b>A1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Parameter(s)                                                                        | <b>CO, Particulates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Limit                                                                               | <b>CO = 100 mg/m<sup>3</sup> [hourly average] , Particulate = 5 mg/m<sup>3</sup> [daily average]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Measured value and uncertainty                                                      | <p>31/07/2016, 00.59-01.59, Max Hourly Av.= 244.9 mg/m<sup>3</sup>, Max 95%ile Av.= 243.33 mg/m<sup>3</sup>, 01.59-02.59, Max Hourly Av.= 247.8 mg/m<sup>3</sup>, Max 95%ile Av.= 245.48 mg/m<sup>3</sup>, 02.59-03.59, Max Hourly Av.= 223.2 mg/m<sup>3</sup>, Max 95%ile Av.= 217.72 mg/m<sup>3</sup>, 03.59-04.59, Max Hourly Av.= 209 mg/m<sup>3</sup>, Max 95%ile Av.= 208.61 mg/m<sup>3</sup>, 04.59-05.59, Max Hourly Av.= 224.9 mg/m<sup>3</sup>, Max 95%ile Av.= 224.14 mg/m<sup>3</sup>, 05.59-06.59, Max Hourly Av.= 209.5 mg/m<sup>3</sup>, Max 95%ile Av.= 209.34 mg/m<sup>3</sup>, 06.59-07.59, Max Hourly Av.= 242.4 mg/m<sup>3</sup>, Max 95%ile Av.= 241.95 mg/m<sup>3</sup>, 07.59-08.59, Max Hourly Av.= 238 mg/m<sup>3</sup>, Max 95%ile Av.= 232.94 mg/m<sup>3</sup>, 08.59-09.59, Max Hourly Av.= 228.8 mg/m<sup>3</sup>, Max 95%ile Av.= 226.85 mg/m<sup>3</sup>, 09.59-10.59, Max Hourly Av.= 170.6 mg/m<sup>3</sup>, Max 95%ile Av.= 170.33 mg/m<sup>3</sup>, 10.59-11.59, Max Hourly Av.= 271.2 mg/m<sup>3</sup>, Max 95%ile Av.= 265.51 mg/m<sup>3</sup>, 11.59-12.59, Max Hourly Av.= 255.2 mg/m<sup>3</sup>, Max 95%ile Av.= 252.07 mg/m<sup>3</sup>, 12.59-13.59, Max Hourly Av.= 241.7 mg/m<sup>3</sup>, Max 95%ile Av.= 239.48 mg/m<sup>3</sup>, 13.59-14.59, Max Hourly Av.= 251.9 mg/m<sup>3</sup>, Max 95%ile Av.=251.18 mg/m<sup>3</sup>, 14.59-15.59, Max Hourly Av.= 266 mg/m<sup>3</sup>, Max 95%ile Av.= 260.81 mg/m<sup>3</sup>, 15.59-16.59, Max Hourly Av.= 242.8 mg/m<sup>3</sup>, Max 95%ile Av.= 242.52 mg/m<sup>3</sup>, 16.59-17.59, Max Hourly Av.= 165.1 mg/m<sup>3</sup>, Max 95%ile Av.= 165.1 mg/m<sup>3</sup>, 17.59-18.59, Max Hourly Av.= 207.7 mg/m<sup>3</sup>, Max 95%ile Av.= 201.75 mg/m<sup>3</sup>, 18.59-19.59, Max Hourly Av.= 183.9 mg/m<sup>3</sup>, Max 95%ile Av.= 183.22 mg/m<sup>3</sup>, 19.59-20.59, Max Hourly Av.= 172.6 mg/m<sup>3</sup>, Max 95%ile Av.= 172.4 mg/m<sup>3</sup>, 20.59-21.59, Max Hourly Av.= 251.1 mg/m<sup>3</sup>, Max 95%ile Av.= 248.3 mg/m<sup>3</sup>, 21.59-22.59, Max Hourly Av.= 180.5 mg/m<sup>3</sup>, Max 95%ile Av.= 179.32 mg/m<sup>3</sup>, 22.59-23.59 Max Hourly Av.= 261.1 mg/m<sup>3</sup>, Max 95%ile Av.= 255.2 mg/m<sup>3</sup>.</p> <p><b>Particulate = 5.07 mg/m<sup>3</sup></b></p> |
| Date and Time of Monitoring                                                         | <p>31/07/2016, 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, 14.59-15.59, 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.</p> <p><b>Particulate = 24 hours</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Measures taken, or intended to be taken, to stop the emission                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

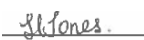
| Time periods for notification following detection of a breach of a limit |                     |
|--------------------------------------------------------------------------|---------------------|
| Parameter                                                                | Notification period |
|  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

| (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

|                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| 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, |

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|  | 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, 21 June, 22 June, 23 June, 24 June, 25 June, 26 June, 27 June, 28 June, 29 June, 30 June, 1 July, 4 July, 8 July, 9 July, 10 July, 11 July, 12 July, 13 July, 14 July, 15 July, 16 July, 17 July, 18 July, 19 July, 20 July, 21 July, 22 July, 23 July, 24 July, 25 July, 26 July, 27 July, 28 July, 29 July, 30 June. |
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|------------------|-----------------------------------------------------------------------------------|
| <b>Name*</b>     | Sara Jones                                                                        |
| <b>Post</b>      | Environmental Advisor                                                             |
| <b>Signature</b> |  |
| <b>Date</b>      | 02/08/2016                                                                        |

\* authorised to sign on behalf of CELSA Manufacturing UK Limited