



Title: Reporting Incinerator CEM

Area: Manufacturing

Issue No.: 1

Ref:

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Incinerator Summary Report - October 2013

| Day                       |                     |               | 1    | 2      | 3      | 4      | 5       | 6       | 7       | 8       | 9      | 10      | 11     | 12     | 13     | 14     | 15     | 16     | 17     | 18     |
|---------------------------|---------------------|---------------|------|--------|--------|--------|---------|---------|---------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Running time              | Residue             | h             | 0    | 7      | 6.5    | 24     | 24      | 24      | 24      | 24      | 22.5   | 24      | 24     | 24     | 24     | 24     | 24     | 24     | 22.5   | 21.5   |
|                           | Gas                 | h             | 0    | 14     | 18     | 1      | 0       | 0       | 0       | 0       | 2.5    | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 2      | 2      |
|                           | Residue & gas       | h             | 0    | 1.5    | 0.5    | 1      | 0       | 0       | 0       | 0       | 1      | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0.5    | 0.5    |
|                           | Idle                | h             | 24   | 4.5    | 0      | 0      | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1      |
| Total flow                | Residue             | kg            | 0.7  | 2639.2 | 2572.5 | 10518  | 10799.2 | 10802.3 | 10800.5 | 10801.3 | 9693.5 | 10787.2 | 9676.2 | 9164.5 | 9121.2 | 9120.3 | 9120.7 | 9119.3 | 8414   | 8076.5 |
|                           | Gas                 | m3            | 0    | 2189.2 | 2860.5 | 96.8   | 0       | 0       | 0       | 0       | 329.8  | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 306    | 312.5  |
|                           | Air                 | m3            | 7334 | 147787 | 130527 | 131873 | 133503  | 138365  | 142302  | 142142  | 137651 | 137196  | 120492 | 116539 | 117086 | 118766 | 119190 | 107455 | 115097 | 114108 |
| NOx (normalised)          | Min                 | mg/m3         |      | 56     | 72.3   | 63     | 250     | 222.7   | 85      | 81.7    | 41     | 119.3   | 114.7  | 149    | 185.3  | 225    | 177    | 88     | 82     | 94.7   |
|                           | Ave                 | mg/m3         |      | 277    | 203.9  | 137.1  | 355.7   | 291.4   | 256.3   | 228.9   | 109    | 149.4   | 140.2  | 183.2  | 227.8  | 257.5  | 243.9  | 175.9  | 118.9  | 131.3  |
|                           | Max                 | mg/m3         |      | 690.7  | 395    | 393.7  | 414.7   | 358     | 401.7   | 330.3   | 176.7  | 188.3   | 168.3  | 232    | 289    | 294.7  | 320.3  | 543.3  | 577.3  | 414.7  |
|                           | Exceeds daily ELV ? | [ 400 mg/m3 ] | N    | N      | N      | N      | N       | N       | N       | N       | N      | N       | N      | N      | N      | N      | N      | N      | N      | N      |
| CO (normalised)           | Min                 | mg/m3         |      | -7.6   | -7.2   | -6.9   | -7      | -7      | -7      | -7      | -7     | -7      | -7     | -7     | -7     | -7     | -7     | -7     | -7     | -7     |
|                           | Ave                 | mg/m3         |      | -6     | -5.9   | -6.4   | -6.8    | -6.9    | -7      | -7      | -6.7   | -7      | -7     | -7     | -6.9   | -6.9   | -6.9   | -6.7   | -6.6   | -6.6   |
|                           | Max                 | mg/m3         |      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
|                           | 30m ELV exceedances | [ 100 mg/m3 ] |      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
|                           | Exceeds daily ELV ? | [ 50 mg/m3 ]  | N    | N      | N      | N      | N       | N       | N       | N       | N      | N       | N      | N      | N      | N      | N      | N      | N      | N      |
| Particulates (normalised) | Min                 | mg/m3         |      | 0.4    | 0.4    | 0.6    | 0.8     | 0.8     | 1.1     | 1.1     | 0.6    | 0.7     | 0.7    | 0.7    | 0.7    | 0.6    | 0.7    | 0.4    | 0.6    | 0.7    |
|                           | Ave                 | mg/m3         |      | 0.6    | 0.7    | 0.8    | 0.9     | 1       | 1.1     | 1.1     | 0.9    | 0.7     | 0.8    | 0.8    | 0.7    | 0.7    | 0.8    | 0.7    | 0.7    | 0.7    |
|                           | Max                 | mg/m3         |      | 0.7    | 0.8    | 0.9    | 1       | 1.2     | 1.2     | 1.2     | 1.2    | 0.8     | 0.8    | 0.8    | 0.8    | 0.8    | 0.9    | 0.9    | 0.8    | 0.8    |
|                           | 30m ELV exceedances | [ 30 mg/m3 ]  |      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
|                           | Exceeds daily ELV ? | [ 10 mg/m3 ]  | N    | N      | N      | N      | N       | N       | N       | N       | N      | N       | N      | N      | N      | N      | N      | N      | N      | N      |
| VOC (normalised)          | Min                 | mg/m3         |      | 0.3    | 0      | 0      | 0.5     | 0.5     | 0       | 0       | 0      | 0       | 0      | 0      | 0      | 0      | 0.5    | 0.4    | 0.1    | 0.2    |
|                           | Ave                 | mg/m3         |      | 0.6    | 0.4    | 0.3    | 0.5     | 0.5     | 0.4     | 0       | 0      | 0       | 0      | 0      | 0      | 0.3    | 0.5    | 0.5    | 0.5    | 0.4    |
|                           | Max                 | mg/m3         |      | 0.9    | 0.8    | 0.6    | 0.5     | 0.5     | 0.5     | 0       | 0.3    | 0       | 0      | 0      | 0      | 0.6    | 0.5    | 0.5    | 0.8    | 0.5    |
|                           | 30m ELV exceedances | [ 20 mg/m3 ]  |      | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0      | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
|                           | Exceeds daily ELV ? | [ 10 mg/m3 ]  | N    | N      | N      | N      | N       | N       | N       | N       | N      | N       | N      | N      | N      | N      | N      | N      | N      | N      |

NOTES

Invalid data points are not reported because the incinerator is not operated at any time whilst CEM equipment is being maintained or calibrated



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Incinerator Summary Report - October 2013

| Day                       |                     |               | 19     | 20     | 21     | 22     | 23 | 24     | 25    | 26     | 27     | 28     | 29     | 30     | 31     | TOTALS        |
|---------------------------|---------------------|---------------|--------|--------|--------|--------|----|--------|-------|--------|--------|--------|--------|--------|--------|---------------|
| Running time              | Residue             | h             | 24     | 24     | 17.5   | 24     |    | 4      | 0     | 8.5    | 23.5   | 24     | 23.5   | 24     | 24     | 589           |
|                           | Gas                 | h             | 0      | 0      | 6.5    | 0      |    | 1      | 0.5   | 17     | 0.5    | 0      | 0.5    | 0      | 0      | 65.5          |
|                           | Residue & gas       | h             | 0      | 0      | 0      | 0      |    | 0      | 0     | 1.5    | 0      | 0      | 0      | 0      | 0      | 6.5           |
|                           | Idle                | h             | 0      | 0      | 0      | 0      |    | 19     | 23.5  | 0      | 0      | 0      | 0      | 0      | 0      | 72            |
| Total flow                | Residue             | kg            | 8974.2 | 8172.2 | 5646.5 | 7799.5 |    | 1298   | 0.2   | 2625   | 8189.2 | 8401   | 8093.2 | 8400.8 | 8401.2 | 227.2 tonnes  |
|                           | Gas                 | m3            | 0      | 0      | 1133   | 0      |    | 161    | 52.8  | 2684.2 | 88.8   | 0      | 118.5  | 0      | 0      | 10333 m3      |
|                           | Air                 | m3            | 117107 | 106914 | 109812 | 104185 |    | 259923 | 73972 | 166674 | 107256 | 104594 | 104819 | 107047 | 109664 | 3649378 m3    |
| NOx (normalised)          | Min                 | mg/m3         | 127.3  | 179.3  | 108    | 135.3  |    | 95     |       | 145.3  | 94.7   | 95     | 54.7   | 131    | 137.3  |               |
|                           | Ave                 | mg/m3         | 175.7  | 227    | 192.2  | 155.5  |    | 293.1  |       | 273.9  | 165.6  | 112.1  | 190.4  | 201.5  | 181.2  |               |
|                           | Max                 | mg/m3         | 336    | 320.7  | 506.3  | 264    |    | 415.3  |       | 686.3  | 591.3  | 131.3  | 473.3  | 303.7  | 243.7  |               |
|                           | Exceeds daily ELV ? | [ 400 mg/m3 ] | N      | N      | N      | N      | N  |        | N     | N      | N      | N      | N      | N      | N      | 0 exceedances |
| CO (normalised)           | Min                 | mg/m3         | -7     | -7     | -7     | -6.7   |    | -7     |       | -6.5   | -6.6   | -6.8   | -6.8   | -6.8   | -6.5   |               |
|                           | Ave                 | mg/m3         | -6.7   | -6.7   | -6.6   | -6.5   |    | -6.8   |       | -5.6   | -6.4   | -6.5   | -6.4   | -6.5   | -6.3   |               |
|                           | Max                 | mg/m3         | 0      | 0      | 0      | 0      |    | 0      |       | 0      | 0      | 0      | 0      | 0      | 0      |               |
|                           | 30m ELV exceedances | [ 100 mg/m3 ] | 0      | 0      | 0      | 0      |    | 0      |       | 0      | 0      | 0      | 0      | 0      | 0      | 0 exceedances |
|                           | Exceeds daily ELV ? | [ 50 mg/m3 ]  | N      | N      | N      | N      | N  |        | N     | N      | N      | N      | N      | N      | N      | 0 exceedances |
| Particulates (normalised) | Min                 | mg/m3         | 0.7    | 0.8    | 0.6    | 0.8    |    | 0.7    |       | 0.4    | 0.6    | 0.7    | 0.4    | 0.6    | 0.7    |               |
|                           | Ave                 | mg/m3         | 0.7    | 0.8    | 0.8    | 0.9    |    | 0.8    |       | 0.7    | 0.7    | 0.8    | 0.6    | 0.7    | 0.7    |               |
|                           | Max                 | mg/m3         | 0.8    | 0.9    | 0.9    | 1      |    | 0.8    |       | 0.9    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |               |
|                           | 30m ELV exceedances | [ 30 mg/m3 ]  | 0      | 0      | 0      | 0      |    | 0      |       | 0      | 0      | 0      | 0      | 0      | 0      | 0 exceedances |
|                           | Exceeds daily ELV ? | [ 10 mg/m3 ]  | N      | N      | N      | N      | N  |        | N     | N      | N      | N      | N      | N      | N      | 0 exceedances |
| VOC (normalised)          | Min                 | mg/m3         | 0.3    | 0.4    | 0.4    | 0.4    |    | 0.3    |       | 0.3    | 0.4    | 0.3    | 0.2    | 0.4    | 0.2    |               |
|                           | Ave                 | mg/m3         | 0.4    | 0.5    | 0.5    | 0.5    |    | 0.5    |       | 0.5    | 0.5    | 0.4    | 0.4    | 0.5    | 0.4    |               |
|                           | Max                 | mg/m3         | 0.5    | 0.5    | 0.5    | 0.5    |    | 0.5    |       | 0.8    | 1.5    | 0.5    | 1.3    | 0.9    | 0.5    |               |
|                           | 30m ELV exceedances | [ 20 mg/m3 ]  | 0      | 0      | 0      | 0      |    | 0      |       | 0      | 0      | 0      | 0      | 0      | 0      | 0 exceedances |
|                           | Exceeds daily ELV ? | [ 10 mg/m3 ]  | N      | N      | N      | N      | N  |        | N     | N      | N      | N      | N      | N      | N      | 0 exceedances |

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Title: Reporting Incinerator CEM Oxides of Nitrogen

Area: Manufacturing

Issue No.: 1

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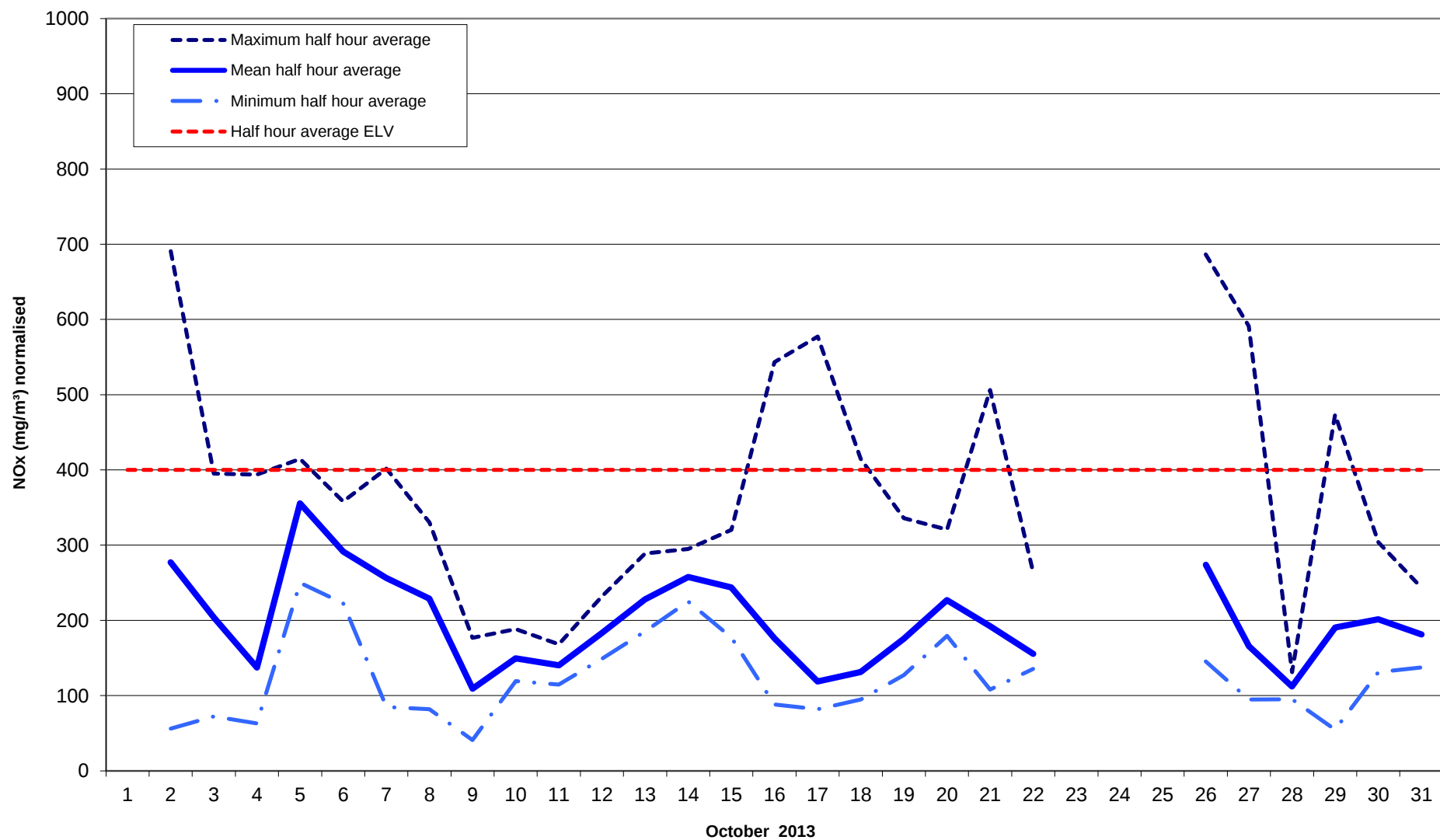
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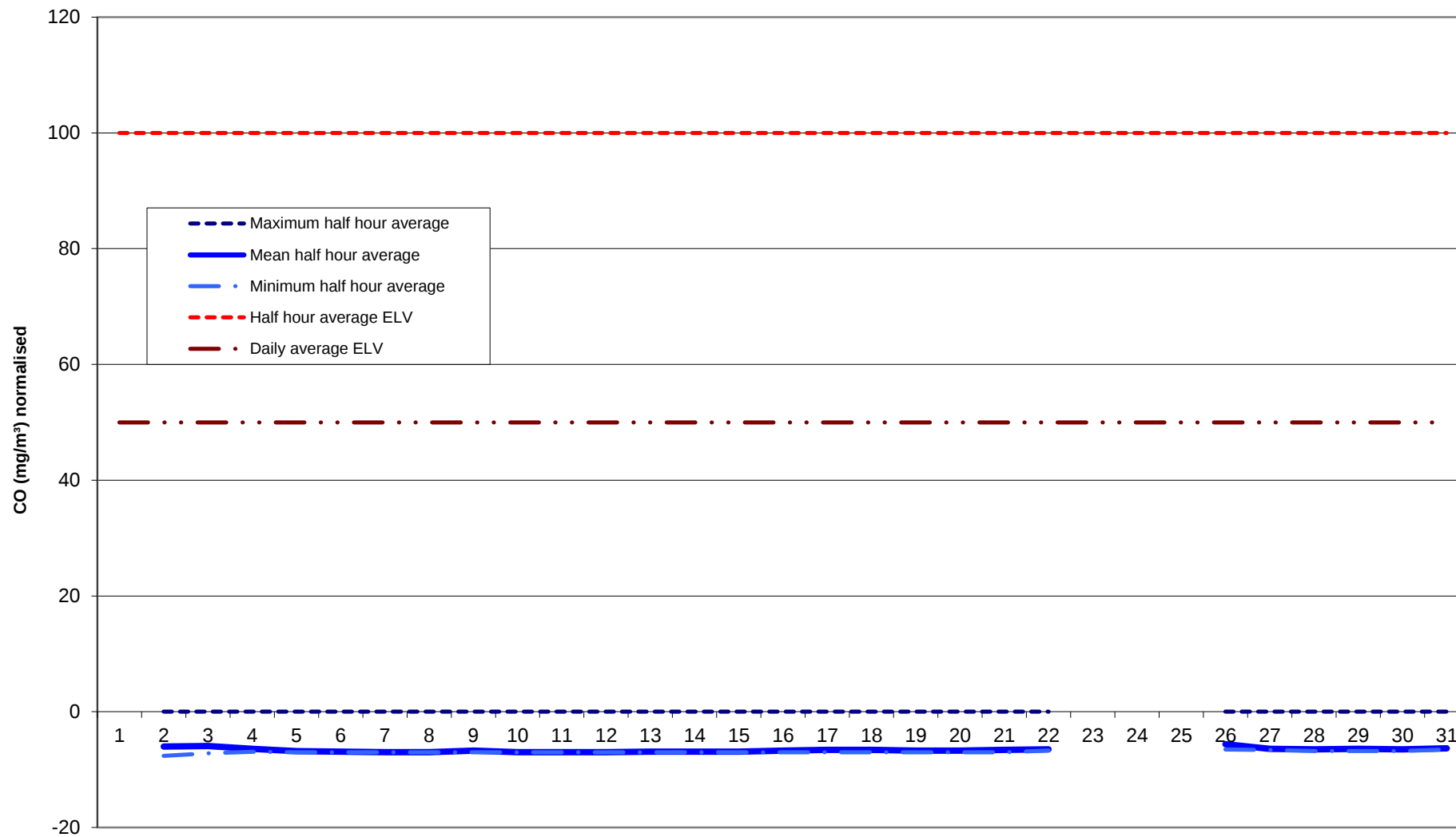
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|-------------------|-------------------------------------------|---------------|---------------|----------------|------------|
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Title: Reporting Incinerator CEM Particulates

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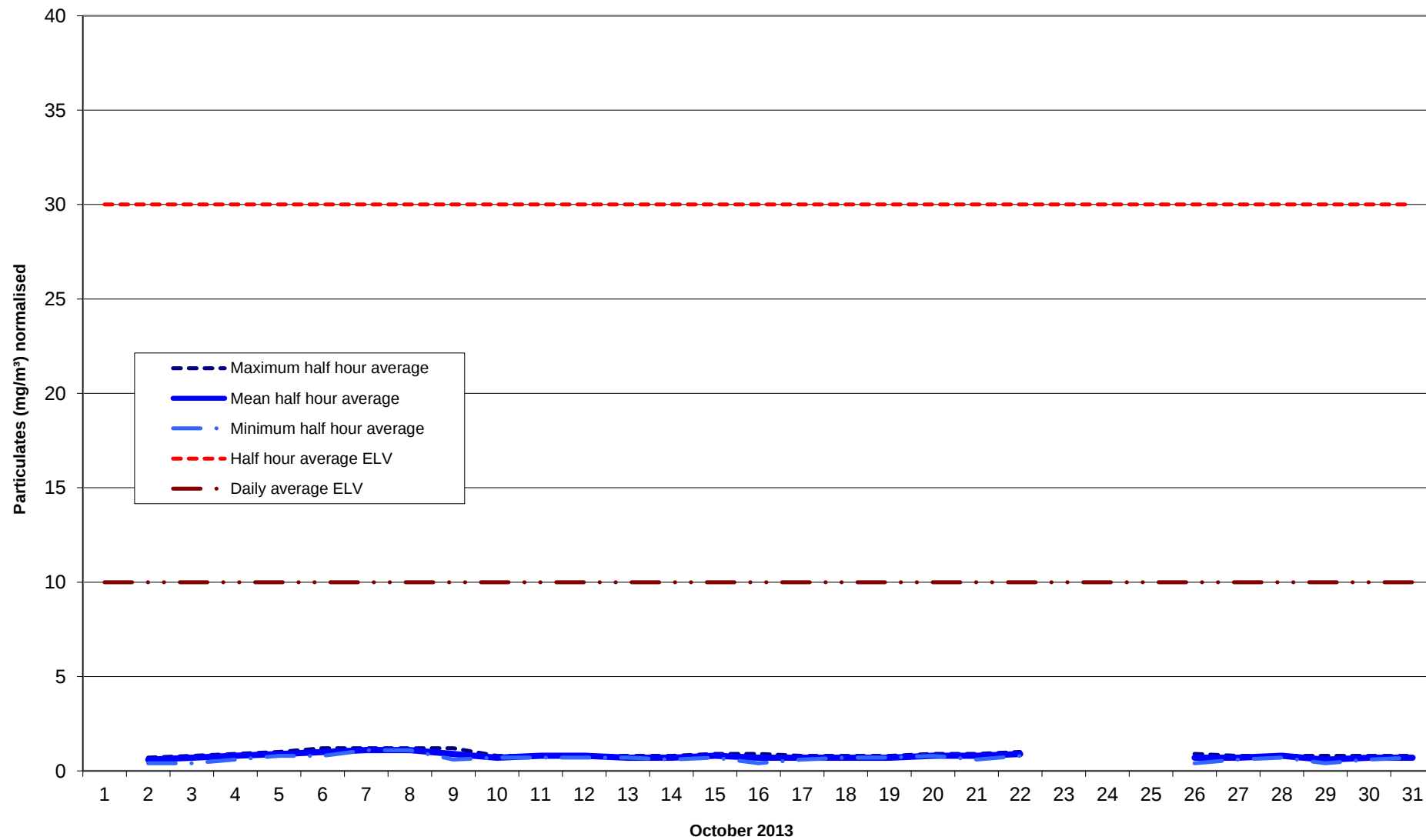
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**Title:** Reporting Incinerator CEM TOC

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