



Title: Reporting Incinerator CEM

Area: Manufacturing

Issue No.: 1

Ref:

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Incinerator Summary Report - March 2015

| Day                       |                     |               | 1      | 2      | 3      | 4       | 5       | 6       | 7       | 8      | 9      | 10     | 11     | 12     | 13     | 14     | 15     | 16     | 17     | 18     |
|---------------------------|---------------------|---------------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Running time              | Residue             | h             | 22     | 21.5   | 23     | 24      | 23      | 24      | 24      | 18.5   | 23.5   | 24     | 24     | 21     | 6      | 18     | 24     | 22.5   | 18.5   | 23     |
|                           | Gas                 | h             | 2.5    | 2.5    | 1      | 0       | 1.5     | 0       | 0       | 5.5    | 1      | 0      | 0      | 2.5    | 18     | 4.5    | 0      | 1.5    | 6.5    | 1      |
|                           | Residue & gas       | h             | 0.5    | 0      | 0      | 0       | 0.5     | 0       | 0       | 0.5    | 0.5    | 0      | 0      | 0      | 0.5    | 0      | 0      | 0      | 1      | 0      |
|                           | Idle                | h             | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0.5    | 0      | 0      | 0      | 0.5    | 0.5    | 1.5    | 0      | 0      | 0      | 0      |
| Total flow                | Residue             | kg            | 9795   | 9708.3 | 10239  | 10799.8 | 10113.2 | 10799.7 | 10802.8 | 8110.8 | 9558.3 | 9603.3 | 9393.2 | 7296.3 | 1936.7 | 7258.7 | 9599.8 | 8264.3 | 6281.7 | 8092.7 |
|                           | Gas                 | m3            | 349.7  | 330.2  | 178.5  | 0       | 212.8   | 0       | 0       | 825    | 108.7  | 0      | 0      | 455.5  | 2845.7 | 578.8  | 0      | 227.3  | 972.7  | 135.2  |
|                           | Air                 | m3            | 147278 | 143303 | 146759 | 147877  | 145772  | 148811  | 150997  | 144631 | 128368 | 129344 | 121433 | 114364 | 127315 | 131788 | 124266 | 117158 | 113751 | 111722 |
| NOx (normalised)          | Min                 | mg/m3         | 86.7   | 71.3   | 68.3   | 70      | 61.7    | 188.7   | 120.7   | 77     | 66     | 93.7   | 81     | 104.7  | 322.3  | 86.7   | 74.3   | 147    | 93     | 99     |
|                           | Ave                 | mg/m3         | 106.2  | 156.1  | 90.3   | 97.2    | 168.6   | 293.1   | 162.4   | 118    | 104    | 117.7  | 105    | 133.4  | 598    | 118.6  | 122    | 220.1  | 171.3  | 123.9  |
|                           | Max                 | mg/m3         | 273.7  | 848.7  | 165.3  | 227.7   | 434.3   | 393     | 187.3   | 367.3  | 127    | 127    | 114    | 385    | 737.3  | 484.3  | 175.3  | 442.3  | 266.7  | 239.7  |
|                           | Exceeds daily ELV ? | [ 400 mg/m3 ] | N      | N      | N      | N       | N       | N       | N       | N      | N      | N      | N      | N      | Y      | N      | N      | N      | N      | N      |
| CO (normalised)           | Min                 | mg/m3         | -8.5   | -7.2   | -7.2   | -8.4    | -8.5    | -8.5    | -5.5    | -5.5   | -5.5   | -5.5   | -5.5   | -5.5   | -5.3   | -5.5   | -5.5   | -5.5   | -5.5   | -5.5   |
|                           | Ave                 | mg/m3         | -7.5   | -7     | -7     | -7.2    | -7.5    | -6.6    | -5.5    | -5.3   | -5.3   | -5.5   | -5.4   | -5.4   | -4.2   | -5.4   | -5.5   | -5.4   | -5.3   | -5.5   |
|                           | Max                 | mg/m3         | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0.8    | 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      | 0      |
| Particulates (normalised) | Min                 | mg/m3         | 0.4    | 0.4    | 0.3    | 0.4     | 0.4     | 0.5     | 0.4     | 0.4    | 0.3    | 0.4    | 0.4    | 0.4    | 0.2    | 0.4    | 0.4    | 0.4    | 0.3    | 0.4    |
|                           | Ave                 | mg/m3         | 0.5    | 0.4    | 0.4    | 0.4     | 0.5     | 0.6     | 0.5     | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.4    | 0.4    | 0.5    | 0.5    | 0.5    | 0.5    |
|                           | Max                 | mg/m3         | 0.6    | 0.5    | 0.5    | 0.4     | 0.6     | 0.6     | 0.6     | 0.6    | 0.6    | 0.6    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.6    | 0.5    |
|                           | 30m ELV exceedances | [ 30 mg/m3 ]  | 0      | 0      | 0      | 0       | 0       | 0       | 0       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| VOC (normalised)          | Min                 | mg/m3         | 0.5    | 0.5    | 0.4    | 0.5     | 0.4     | 0.5     | 0       | 0      | 0      | 0      | 0      | 0.3    | 0.2    | 0      | 0      | 0      | 0      | 0      |
|                           | Ave                 | mg/m3         | 0.5    | 0.5    | 0.5    | 0.5     | 0.5     | 0.5     | 0.2     | 0      | 0      | 0      | 0.3    | 0.6    | 0.5    | 0      | 0      | 0      | 0      | 0      |
|                           | Max                 | mg/m3         | 0.5    | 0.8    | 0.5    | 0.5     | 0.9     | 0.5     | 0.5     | 0.7    | 0.3    | 0      | 0.6    | 1      | 0.7    | 0      | 0      | 0      | 0.1    | 0      |
|                           | 30m ELV exceedances | [ 20 mg/m3 ]  | 0      | 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 - March 2015

| Day                       |                     |               | 19     | 20     | 21     | 22     | 23     | 24     | 25     | 26     | 27     | 28     | 29     | 30     | 31     | TOTALS        |
|---------------------------|---------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| Running time              | Residue             | h             | 19     | 24     | 24     | 21     | 24     | 22     | 18     | 24     | 24     | 24     | 24     | 23.5   | 15     | 671           |
|                           | Gas                 | h             | 4.5    | 0      | 0      | 3.5    | 0      | 2.5    | 9      | 0      | 0      | 0      | 0      | 0      | 10     | 77.5          |
|                           | Residue & gas       | h             | 0.5    | 0      | 0      | 0.5    | 0      | 0.5    | 3      | 0      | 0      | 0      | 0      | 0      | 1.5    | 9.5           |
|                           | Idle                | h             | 1      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0.5    | 0.5    | 5             |
| Total flow                | Residue             | kg            | 6437.3 | 8400   | 8400.2 | 7114.8 | 8400.2 | 7446.8 | 5705.5 | 8640   | 8640   | 8640   | 8640   | 8340   | 5622.5 | 258.1 tonnes  |
|                           | Gas                 | m3            | 708.3  | 0      | 0      | 615    | 0      | 390.5  | 1259.8 | 0      | 0      | 0      | 0      | 0      | 1495.7 | 11689 m3      |
|                           | Air                 | m3            | 119919 | 115522 | 114113 | 113531 | 113207 | 112163 | 120229 | 113604 | 112814 | 118036 | 114735 | 108004 | 132863 | 3903675 m3    |
| NOx (normalised)          | Min                 | mg/m3         | 36.7   | 90.7   | 90.3   | 69     | 82     | 103.3  | 40.3   | 265.3  | 259    | 235.3  | 193.7  | 144    | 65.7   |               |
|                           | Ave                 | mg/m3         | 132.2  | 113.9  | 227.4  | 156.3  | 106    | 196.9  | 370.4  | 343.8  | 310.2  | 294.6  | 291.6  | 242    | 300.1  |               |
|                           | Max                 | mg/m3         | 435.7  | 131.7  | 579.7  | 224.7  | 170    | 633    | 741.7  | 434    | 324.7  | 340.3  | 333.7  | 340.3  | 508    |               |
|                           | Exceeds daily ELV ? | [ 400 mg/m3 ] | N      | N      | N      | N      | N      | N      | N      | N      | N      | N      | N      | N      | N      | 1 exceedances |
| CO (normalised)           | Min                 | mg/m3         | -5.5   | -5.5   | -5.5   | -5.5   | -5.5   | -5.5   | -5.5   | -5.5   | -5.5   | -5.5   | -5.5   | -5.5   | -5.5   |               |
|                           | Ave                 | mg/m3         | -5.3   | -5.5   | -5.5   | -5.2   | -5.5   | -5.1   | -4.5   | -5.4   | -5.5   | -5.5   | -5.5   | -5.4   | -4.5   |               |
|                           | Max                 | mg/m3         | 0      | 0      | 0      | 0      | 0      | 0      | 2.5    | 0      | 0      | 0      | 0      | 0      | 0.8    |               |
|                           | 30m ELV exceedances | [ 100 mg/m3 ] | 0      | 0      | 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      | N      | 0 exceedances |
| Particulates (normalised) | Min                 | mg/m3         | 0.1    | 0.4    | 0.4    | 0.4    | 0.4    | 0.3    | 0.1    | 0.4    | 0.4    | 0.4    | 0.4    | 0.3    | 0.3    |               |
|                           | Ave                 | mg/m3         | 0.4    | 0.5    | 0.5    | 0.5    | 0.5    | 0.4    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.4    | 0.4    |               |
|                           | Max                 | mg/m3         | 0.5    | 0.5    | 0.6    | 0.5    | 0.5    | 0.5    | 0.6    | 0.5    | 0.6    | 0.6    | 0.6    | 0.5    | 0.5    |               |
|                           | 30m ELV exceedances | [ 30 mg/m3 ]  | 0      | 0      | 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      | N      | 0 exceedances |
| VOC (normalised)          | Min                 | mg/m3         | 0      | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.4    | 0.5    | 0.5    | 0      | 0      | 0      | 0      |               |
|                           | Ave                 | mg/m3         | 0.2    | 0.5    | 0.5    | 0.6    | 0.5    | 0.5    | 1.3    | 0.9    | 0.6    | 0.5    | 0      | 0      | 0      |               |
|                           | Max                 | mg/m3         | 0.6    | 0.8    | 0.8    | 1      | 0.5    | 0.6    | 1.5    | 1.5    | 0.9    | 0.9    | 0      | 0      | 0.3    |               |
|                           | 30m ELV exceedances | [ 20 mg/m3 ]  | 0      | 0      | 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      | N      | 0 exceedances |

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Title: Reporting Incinerator CEM Oxides of Nitrogen

Area: Manufacturing

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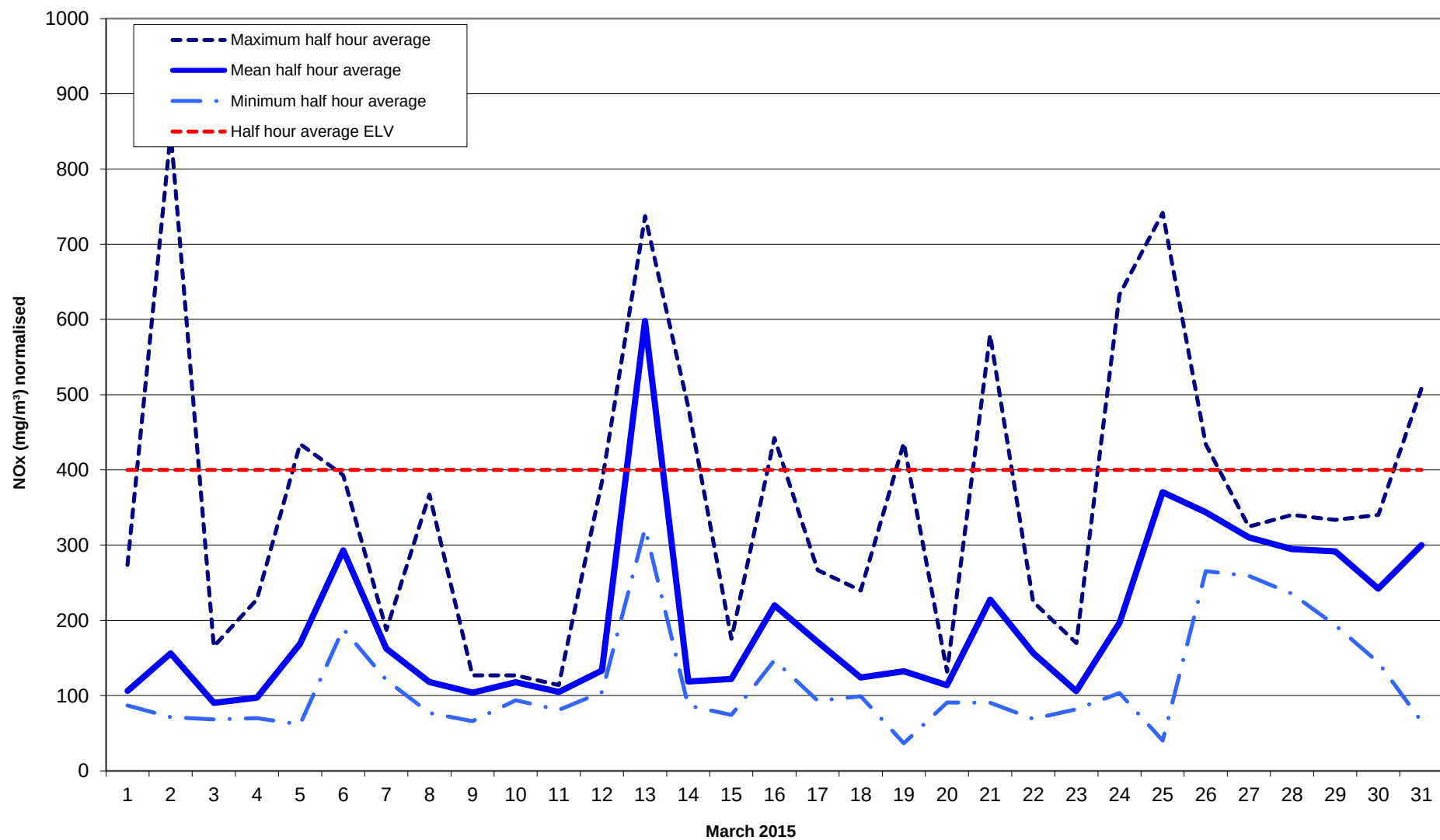
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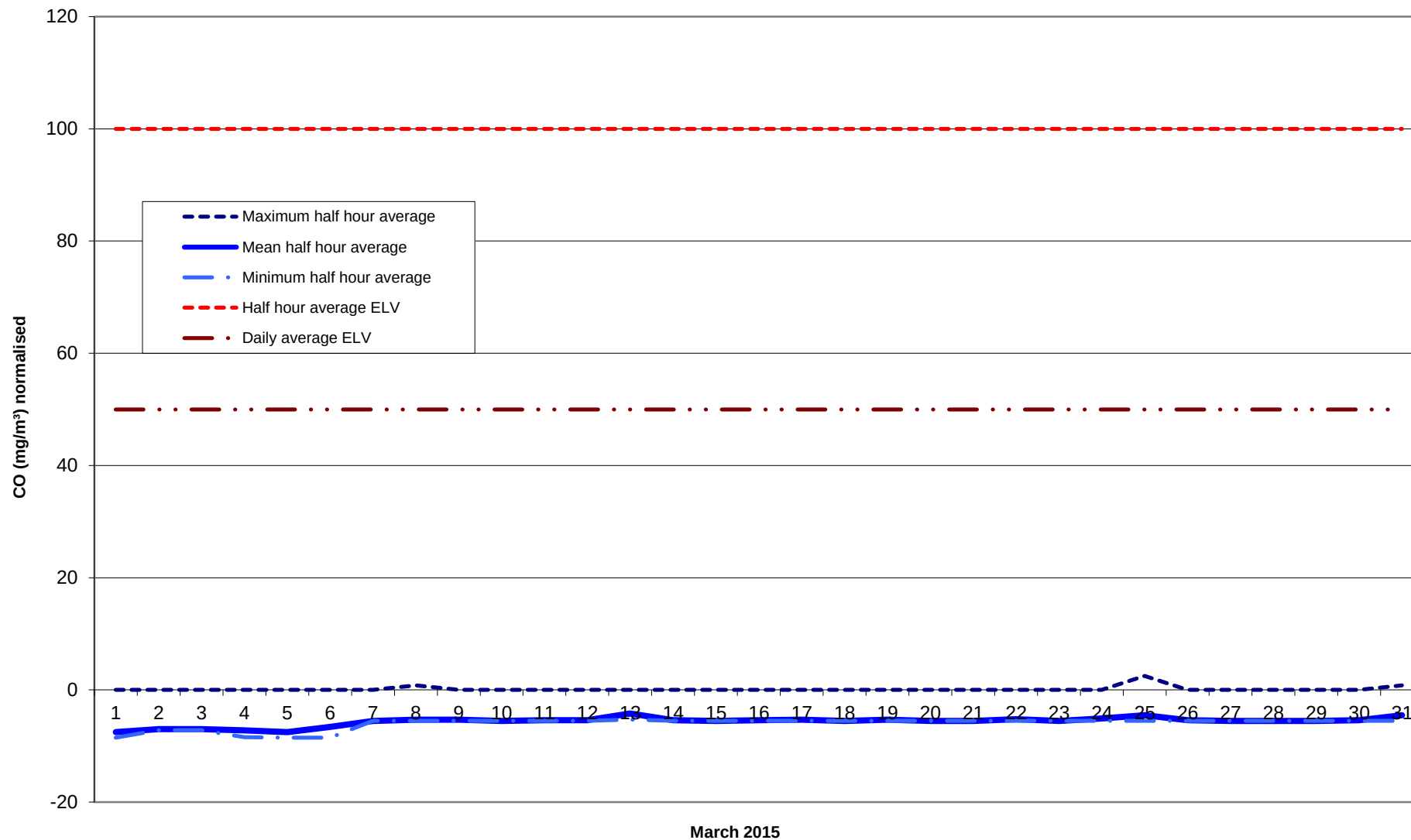
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|-------------------|-------------------------------------------|---------------|---------------|----------------|------------|
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Title: Reporting Incinerator CEM Particulates

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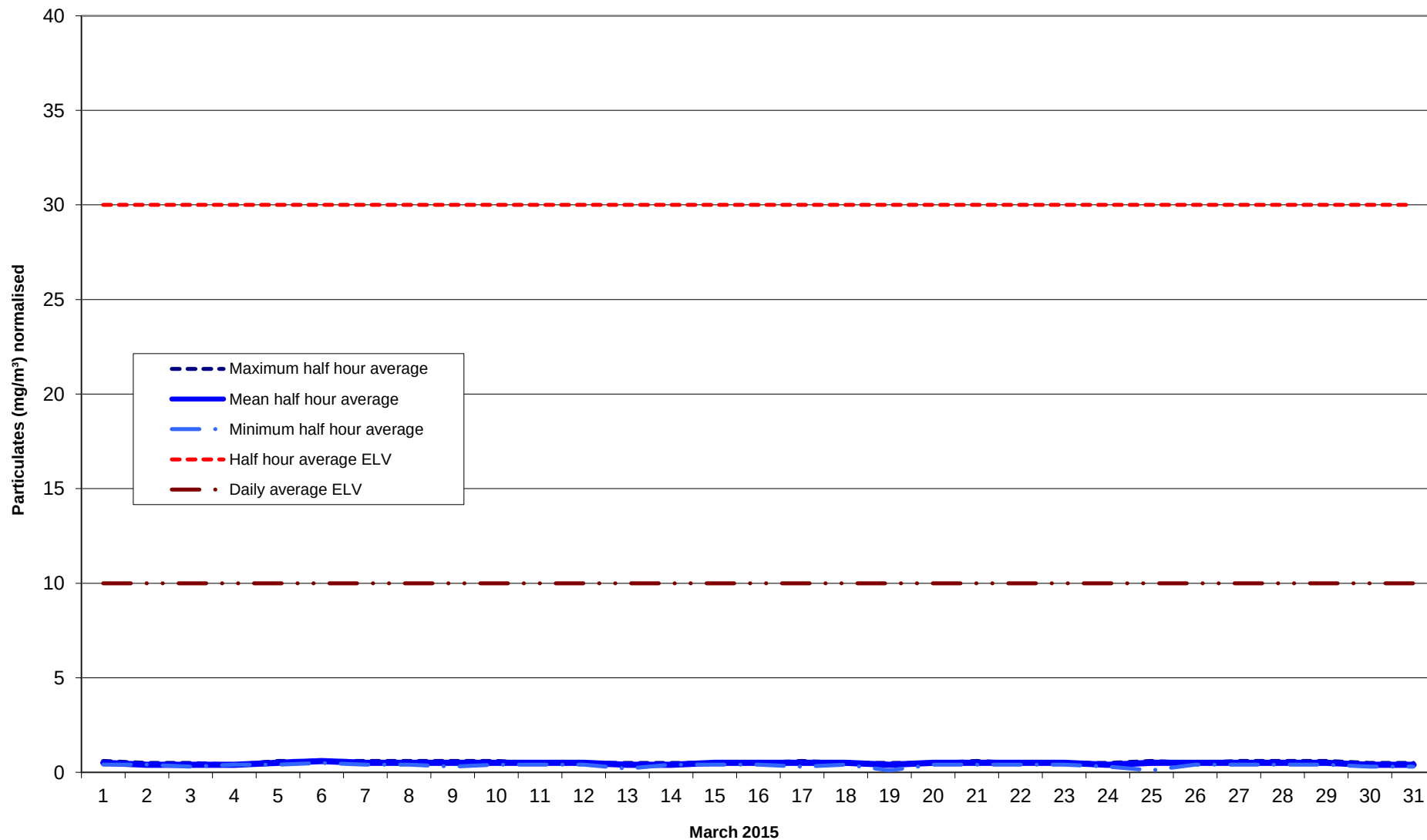
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**Title:** Reporting Incinerator CEM TOC

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