

CEM - 2012 (Quarterly)

British Columbia Hydro and Power Authority
Permit: 0330 / Due Date: Apr 30 2012

| 01A - Power boiler #1 | |
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| Nitrogen Oxides | |
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 0 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 52 mg/m3 |
| Minimum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Jan 01 2012 |
| Maximum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | Jan 01 2012 |
| Average of Test Results Over the Quarter: | 0 mg/m3 |
| 98th Percentile Value: | 0 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | Unit 1 did not operate during this quarter |
| 01B - Power boiler #1 | |
| Nitrogen Oxides | |
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 0 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 35 mg/m3 |
| Minimum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Jan 01 2012 |
| Maximum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | Jan 01 2012 |
| Average of Test Results Over the Quarter: | 0 mg/m3 |
| 98th Percentile Value: | 0 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | unit 1 did not operate during this quarter |
| 02A - Power boiler #2 | |
| Nitrogen Oxides | |
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 0 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 52 mg/m3 |
| Minimum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Jan 01 2012 |
| Maximum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | Jan 01 2012 |
| Average of Test Results Over the Quarter: | 0 mg/m3 |
| 98th Percentile Value: | 0 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | unit 2 did not operate during this quarter |
| 02B - Power boiler #2 | |
| Nitrogen Oxides | |
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 0 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 35 mg/m3 |

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| Minimum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Jan 01 2012 |
| Maximum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | Jan 01 2012 |
| Average of Test Results Over the Quarter: | 0 mg/m3 |
| 98th Percentile Value: | 0 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | unit 2 did not operate during this quarter |

O3A - Power boiler #3

Nitrogen Oxides

| | |
|--|--|
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 0 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 52 mg/m3 |
| Minimum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Jan 01 2012 |
| Maximum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | Jan 01 2012 |
| Average of Test Results Over the Quarter: | 0 mg/m3 |
| 98th Percentile Value: | 0 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | unit 3 did not operate during this quarter |

O3B - Power boiler #3

Nitrogen Oxides

| | |
|--|--|
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 0 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 35 mg/m3 |
| Minimum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Jan 01 2012 |
| Maximum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | Jan 01 2012 |
| Average of Test Results Over the Quarter: | 0 mg/m3 |
| 98th Percentile Value: | 0 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | unit 3 did not operate during this quarter |

O4A - Power boiler #4

Nitrogen Oxides

| | |
|--|----------------------|
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 2 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 52 mg/m3 |
| Minimum Hourly Average Test Result: | 26.5 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Feb 23 2012 |
| Maximum Hourly Average Test Result: | 26.9 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | Feb 23 2012 |
| Average of Test Results Over the Quarter: | 26.7 mg/m3 |
| 98th Percentile Value: | 26.892 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | |

O4B - Power boiler #4

| Nitrogen Oxides | |
|--|----------------------|
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 2 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 35 mg/m3 |
| Minimum Hourly Average Test Result: | 3.7 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Feb 23 2012 |
| Maximum Hourly Average Test Result: | 4.2 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | Feb 23 2012 |
| Average of Test Results Over the Quarter: | 3.95 mg/m3 |
| 98th Percentile Value: | 4.19 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | |

05A - Power boiler #5

| Nitrogen Oxides | |
|--|--|
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 0 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 52 mg/m3 |
| Minimum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Jan 01 2012 |
| Maximum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | Jan 01 2012 |
| Average of Test Results Over the Quarter: | 0 mg/m3 |
| 98th Percentile Value: | 0 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | unit 5 did not operate during this quarter |

05B - Power boiler #5

| Nitrogen Oxides | |
|--|--|
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 0 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 35 mg/m3 |
| Minimum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Jan 01 2012 |
| Maximum Hourly Average Test Result: | 0 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | Jan 01 2012 |
| Average of Test Results Over the Quarter: | 0 mg/m3 |
| 98th Percentile Value: | 0 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | unit 5 did not operate during this quarter |

06A - Power boiler #6

| Nitrogen Oxides | |
|--|----------------------|
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 18 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 52 mg/m3 |
| Minimum Hourly Average Test Result: | 19.1 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Mar 23 2012 |
| Maximum Hourly Average Test Result: | 34.7 mg/m3 |

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| Date/Time of Maximum Hourly Average Test Result: | Mar 22 2012 |
| Average of Test Results Over the Quarter: | 28.361 mg/m3 |
| 98th Percentile Value: | 34.632 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | |
| 06B - Power boiler #6 | |
| Nitrogen Oxides | |
| Test Date Range: | January 1 - March 31 |
| Total Hours of Data Collected: | 18 hrs |
| Permitted Flow Limit: | 7600 m3/min |
| Average Measured CEM Flow: | |
| Contaminant Permit Limit Value: | 35 mg/m3 |
| Minimum Hourly Average Test Result: | 27.3 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | Mar 22 2012 |
| Maximum Hourly Average Test Result: | 31.8 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | Mar 22 2012 |
| Average of Test Results Over the Quarter: | 29.022 mg/m3 |
| 98th Percentile Value: | 31.698 mg/m3 |
| Data Recovery: | 100 % |
| Comments: | |