

CEM - 2014 (Quarterly)

British Columbia Hydro and Power Authority

Permit: 0330 / Due Date: January 30, 2014

| 01A - Power boiler #1 | |
|--|--|
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 0.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 52.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | October 01, 2013 |
| Maximum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | October 01, 2013 |
| Average of Test Results Over the Quarter: | 0.000 mg/m3 |
| 98th Percentile Value: | 0.000 mg/m3 |
| Data Recovery: | 100.000 % |
| Comments: | unit 1 did not operate during this quarter |
| 01B - Power boiler #1 | |
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 0.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 35.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | October 01, 2013 |
| Maximum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | October 01, 2013 |
| Average of Test Results Over the Quarter: | 0.000 mg/m3 |
| 98th Percentile Value: | 0.000 mg/m3 |
| Data Recovery: | 100.000 % |
| Comments: | unit 1 did not operate during this quarter |

| 02A - Power boiler #2 | |
|---|--|
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 0.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 52.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | October 01, 2013 |
| Maximum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | October 01, 2013 |
| Average of Test Results Over the Quarter: | 0.000 mg/m3 |
| 98th Percentile Value: | 0.000 mg/m3 |
| Data Recovery: | 100.000 % |
| Comments: | unit 2 did not operate during this quarter |
| 02B - Power boiler #2 | |
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 0.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 35.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | October 01, 2013 |
| Maximum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | October 01, 2013 |
| Average of Test Results Over the Quarter: | 0.000 mg/m3 |
| 98th Percentile Value: | 0.000 mg/m3 |
| Data Recovery: | 100.000 % |
| Comments: | unit 2 did not operate during this quarter |

| 03A - Power boiler #3 | |
|---|--|
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 0.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 52.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | October 02, 2013 |
| Maximum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | October 01, 2013 |
| Average of Test Results Over the Quarter: | 0.000 mg/m3 |
| 98th Percentile Value: | 0.000 mg/m3 |
| Data Recovery: | 100.000 % |
| Comments: | unit 3 did not operate during this quarter |
| 03B - Power boiler #3 | |
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 0.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 35.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | October 01, 2013 |
| Maximum Hourly Average Test Result: | 0.000 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | October 01, 2013 |
| Average of Test Results Over the Quarter: | 0.000 mg/m3 |
| 98th Percentile Value: | 0.000 mg/m3 |
| Data Recovery: | 100.000 % |
| Comments: | unit 3 did not operate during this quarter |

| 04A - Power boiler #4 | |
|--|--|
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 190.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 52.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 22.900 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | December 11, 2013 |
| Maximum Hourly Average Test Result: | 34.200 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | October 25, 2013 |
| Average of Test Results Over the Quarter: | 28.468 mg/m3 |
| 98th Percentile Value: | 32.522 mg/m3 |
| Data Recovery: | 100.000 % |
| Comments: | |
| 04B - Power boiler #4 | |
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 190.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 35.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 4.000 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | October 22, 2013 |
| Maximum Hourly Average Test Result: | 13.400 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | December 05, 2013 |
| Average of Test Results Over the Quarter: | 11.567 mg/m3 |
| 98th Percentile Value: | 13.300 mg/m3 |
| Data Recovery: | 100.000 % |
| Comments: | minimum occurred on 22-Oct-13 and 2-Dec-13 |

| 05A - Power boiler #5 | |
|---|-------------------------|
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 68.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 52.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 25.600 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | October 18, 2013 |
| Maximum Hourly Average Test Result: | 40.200 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | December 07, 2013 |
| Average of Test Results Over the Quarter: | 29.122 mg/m3 |
| 98th Percentile Value: | 37.844 mg/m3 |
| Data Recovery: | 98.900 % |
| Comments: | |
| 05B - Power boiler #5 | |
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 68.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 35.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 4.500 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | December 07, 2013 |
| Maximum Hourly Average Test Result: | 30.800 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | November 21, 2013 |
| Average of Test Results Over the Quarter: | 24.091 mg/m3 |
| 98th Percentile Value: | 30.700 mg/m3 |
| Data Recovery: | 100.000 % |
| Comments: | |

| 06A - Power boiler #6 | |
|---|---|
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 71.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 52.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 10.100 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | December 05, 2013 |
| Maximum Hourly Average Test Result: | 37.500 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | November 20, 2013 |
| Average of Test Results Over the Quarter: | 25.182 mg/m3 |
| 98th Percentile Value: | 36.260 mg/m3 |
| Data Recovery: | 97.700 % |
| Comments: | |
| 06B - Power boiler #6 | |
| Nitrogen Oxides | |
| Test Date Range: | October 1 - December 31 |
| Total Hours of Data Collected: | 71.00 hours |
| Permitted Flow Limit: | 7600.00 m3/min |
| Contaminant Permit Limit: | 35.0000 mg/m3 |
| Minimum Hourly Average Test Result: | 8.100 mg/m3 |
| Date/Time of Minimum Hourly Average Test Result: | December 19, 2013 |
| Maximum Hourly Average Test Result: | 30.700 mg/m3 |
| Date/Time of Maximum Hourly Average Test Result: | November 20, 2013 |
| Average of Test Results Over the Quarter: | 24.190 mg/m3 |
| 98th Percentile Value: | 30.600 mg/m3 |
| Data Recovery: | 100.000 % |
| Comments: | minimum occurred 2-Dec-13 and 19-Dec-13 |