

Summary of Changes to DYEC Air Emissions Monitoring Plan (February 2013)

| | Original Text | Revised |
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| All | Certificate of Approval | Environmental Compliance Approval |
| All | CofA | ECA |
| All | EMP | AEMP |
| 1.0 | Air emissions monitoring will commence prior to commencement of operation of the Boilers and until the Director notifies the DYEC in writing to cease. | <p>In addition, odour has been addressed separately in the “Odour Management and Mitigation Plan”, April 2012 (Rev) which responds to Section 18 of EA Notice of Approval to Proceed as well as the ECA</p> <ul style="list-style-type: none"> • Sections 6(1)(a) & Schedule B - undertaking initial testing to document the maximum 10-minute odour unit level at sensitive receptors; • Section 8 – Odour Management; and • Section 10 – Complaints / Odour Contaminant Emissions Response Procedure. <p>Implementation of the AEMP will be initiated such that monitoring commences when the first discharges are emitted from the Durham York Energy Centre (DYEC) to the air and shall continue until such time as the Director makes notification that the AEMP is no longer required.</p> <p>The AEMP is a live document, to be updated based on revisions to the DYEC operations.. Where such changes may occur, a process must be followed to consider them within the context of the Minister approved EA, the approved ECA and the approved Source Testing Protocol to determine if an amendment to the EA and/or ECA is required.. Therefore, any potentially material changes to DYEC operations need to consider potential impacts on the EA and ECA prior to them being carried out. Consultation undertaken in support of amendments will be determined in consultation with the MOE - EAB.</p> |
| 2.0 | The proposed operating schedule may vary depending on demand and Facility needs. | The proposed operating schedule may be adjusted depending on demand and facility needs within the established setup indicated in the ECA (i.e, waste can only be received from Monday to Saturday – excluding statutory holidays, and |

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| | | between 7:00 am and 7:00 pm – ECA’s Condition 4(1)(b)). |
| 3.2 | <ul style="list-style-type: none"> scheduling annual source testing, calibration and evaluation testing and ensuring that these activities are implemented according to CofA requirements; | <ul style="list-style-type: none"> Setting in motion source testing procedures for the initial and subsequent annual testing programs, as required by the ECA’s Condition 7(1), and in accordance with the procedures and timelines outlined in the ECA’s Schedule “E” Coordinating the initial CEMs Relative Accuracy Test Audit (RATA), subsequent annual CEMs relative accuracy recertification, and ECA’s CEMs minimum performance specifications validation, as listed in the ECA’s Schedule “F”. |
| 4.2 | Additional paragraph added | Organic Matter or total hydrocarbons (THC) will be monitored at the economizer outlet which is an additional indicator to monitor the combustion efficiency of the DYEC but is not used for compliance. Source testing will be used to determine compliance for this parameter as per Schedule “C” of the ECA. Similarly for dioxin/furans which will be monitored with the aid of a state of the art long-term sampling system (Section 7(3)), compliance with the respective ECA limitation will only be determined using source testing as per Schedule “C” of the ECA. |
| | In addition, Source Testing will be carried out for contaminants listed in Table 4 and Table 5 with their respective test methods identified. This list is derived from contaminants set out in Schedule 1 to the EA Approval and the CofA as summarized by Appendix A to this EMP. <u>Compliance with contaminants that are measured by CEM system may be either by monitoring or manual test methods.</u> Source Testing will follow the Ontario Source Testing Code or USEPA standard protocols and the Source Testing procedures detailed in Schedule “F” of the CofA. Source Testing will be carried out on an annual basis and DYEC will | In addition, Source Testing will be carried out for contaminants listed in Table 4 and Table 5 with their respective test methods identified. This list is derived from contaminants set out in Schedule 1 to the EA Approval and the ECA as summarized by Appendix A to this AEMP. Source Testing will follow the Ontario Source Testing Code or USEPA standard protocols and the Source Testing procedures detailed in Schedule “F” of the ECA. Source Testing will be carried out on an annual basis and DYEC will submit a <u>detailed Source Testing Protocol to the Manager, Technology Standards Section, Standards</u> |

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| | submit a <u>detailed test protocol to the District Manager prior to Source Testing.</u> | <u>Development Branch, which must be approved prior to Source Testing.</u> |
| Table 4 | | |
| Particulate Matter (Filterable only) | EPA Method 13B | Ontario Source Testing Code, Method ON-5 |
| Dioxin/Furans | EPA Method 23 | Environment Canada EPS 1/RM/2, EPS 1/RM/23 and Method EPS 1/RM/3 |
| Table 5 | | |
| Carbon Dioxide | EPA Method 3,3A,3B | EPA Method 3A |
| Total Chromium and Hexavalent Chromium | EPA Method 29 | EPA Method 29 & EPA SW-846 Method 0061 |
| Silver | | EPA Method 29 |
| Chlorobenzenes | EPA Method 18 or TO-15 | Environment Canada Method EPS 1/RM/2 |
| Chlorophenols | EPA Method TO-8 | Environment Canada EPS 1/RM/2 |
| PCB | EPA Method 23 & SW846 or CARB 426 | Environment Canada EPS 1/RM/2 |
| Volatile Organic Matter | EPA TO-15 | EPA SW-846 Method 0030 & CARB 430 |
| 4.2 | As shown in Appendix 1 of Guideline A-7, only TSP with condensable is required for manual stack testing. This is in contrast to the CofA which requires TSP without condensables and PM ₁₀ and PM _{2.5} , both including condensables. As such, Source Testing for PM ₁₀ and PM _{2.5} (condensable and non-condensable) following USEPA methods will be conducted. | Deleted |
| Table 8 Heading Opacity | Daily 10-Min Max/Min ✓(6 min) | Daily 6-Min ✓ |
| 5.4 | Zero and high-level calibration error and drift response are considered to be acceptable on a daily basis, and the measurement data are considered to be valid, if the CEM specifications <u>identified in Appendix B of this EMP for initial certification and performance evaluations are met.</u> | Zero and span gas calibration error and drift responses are considered acceptable on a daily basis, and the measurement data are considered to be valid, if the CEMs performance specifications <u>listed in the ECA's Schedule "F" are met.</u> |
| 5.5 | RATAs are used to establish the ability of a CEMS to accurately measure and report a given pollutant concentration or emissions | RATAs are used to establish the ability of a CEMS to accurately measure and report a given pollutant concentration |

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| | <p>rate from an affected source and to determine any bias in those measurements. The RATA is required for initial CEMS certification and must be performed annually thereafter during routine operation of the source. These relative accuracy and bias tests will be conducted in accordance with the procedures in 40 CFR Appendix B or EPS 1/PG/7.</p> | <p>or emissions rate from an affected source and to determine any bias in those measurements. The RATA is required for initial CEMS certification and must be performed annually thereafter during routine operation of the source. These relative accuracy and bias tests will be conducted in accordance with the procedures in 40 CFR Appendix B or EPS 1/PG/7 <u>as appropriate, to validate that the CEM system meets the minimum performance specifications listed in Schedule "F" of the ECA.</u></p> |