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| Minnesota Pollution Control Agency (MPCA), 520 Lafayette Road North, St. Paul, MN 55155-4194 | Air Performance Test form  Air Quality Compliance Program  Operating Data Summary for Non-class IV Waste Combustors  Doc Type: Compliance/Enforcement Correspondence |

## **Instructions:** Email test reports and plans to: [SubmitStackTest.pca@state.mn.us](mailto:SubmitStackTest.pca@state.mn.us)

## The Minnesota Pollution Control Agency (MPCA) requests that the applicable parts of this form be completed and submitted with the performance test report. This will help to ensure a prompt and accurate response to your test results.

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| **Limitation Method: Maximum Demonstrated Capacity per Minn. R. 7011.1201, subp. 32, Minn. R. 7011.1265, subp. 7 and Minn. R. 7017.2025, subp. 3** | **Column A: Tested Value** | **Column B: Proposed Operating Limit** |
| A) For facilities with heat recovery, operate at the steam load generated during dioxin testing as determined below:   1. Compliant dioxin/furan test. 2. List the average unit load achieved during each of the runs in Column A. 3. If emissions are less than 80 percent of the applicable standard: Choose the run with the highest average unit load achieved, as reported in Column A, multiply by 1.1, and report result in Column B. 4. If emissions are greater than 80 percent of the applicable standard or if the emission unit is in noncompliant status with any other air pollutant: Choose the run with the highest average unit load achieved, and report that value in Column B.   B) For facilities without heat recovery, operate at the waste input rate achieved during dioxin testing as determined below:   1. Follow same steps as A) 1-4, except that the waste input rate is used instead of the steam load. | Run 1:  Run 2:  Run 3:  Average: | lb/hr as a four‑hour block average \* |
| **Limitation Method: Dioxin/Furan Control Additive Feed Rate per Minn. R. 7011.1272, subp. 2.** | **Column A: Tested Value** | **Column B: Proposed Operating Limit** |
| Arithmetic average of additive feed rate during compliant dioxin/furan test, as determined using the primary indicator of the additive’s mass feed rate (such as auger rotation speed).\*\*  1) Compliant dioxin/furan test.  2) Report the additive feed rate for each of the three runs in Column A.  3) Calculate the average and report in Column B. | Run 1:  Run 2:  Run 3:  Average: | lb/hr during each hour of waste combustor unit operation, to be measured and recorded at least once every eight hours *(unless more specific conditions are required in an applicable compliance document)* |
| **Limitation Method: Mercury Control Additive Feed Rate per Minn. R. 7011.1272,  subp. 2.** | **Column A: Tested Value** | **Column B:  Proposed Operating Limit** |
| Average of feed rate during mercury runs, as determined using the primary indicator of the additive’s mass feed rate (such as auger rotation speed)\*\*  1) Compliant mercury test.  2) Report the additive feed rate for each of the three runs in Column A.  3) Calculate the average and report in Column B. | Run 1:  Run 2:  Run 3:  Average: | lb/hr during each hour of waste combustor unit operation, to be measured and recorded at least once every eight hours *(unless more specific conditions are required in an applicable compliance document)* |

## *lb/hr = pounds per hour*

\* “Four-hour Block average” is the arithmetic average of all measurements between 12:00 a.m. to 4:00 a.m.; 4:00 a.m. to 8:00 a.m.; 8:00 a.m. to 12:00 p.m.; 12:00 p.m. to 4:00 p.m.; 4:00 p.m. to 8:00 p.m.; and 8:00 p.m. to 12:00 a.m.

## \*\* If dioxins and mercury are both controlled by the same additive (such as carbon), then the proposed operating limit must satisfy both sets of requirements. For example, a mercury test at a two lb/hr carbon feed rate does not override a three lb/hr carbon feed rate limit established by a dioxin test.

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| **Limitation Method: Particulate Matter Control Device Inlet Temperature per Minn. R. 7011.1240, subp. 2.** | **Column A: Tested Value** | **Column B: Proposed Operating Limit** |
| Highest four-hour arithmetic mean temperature measured during four consecutive hours during the individual dioxin runs  1) Compliant dioxin/furan test  2) List the highest four-hour arithmetic mean temperatures that span each compliant dioxin/furan test run and report in column A  3) Choose the run with the highest average, add 30 degrees F, and report in Column B. | Run 1:  Run 2:  Run 3:  Average: | F as a four-hour block average \* |
| **Limitation Method: Lime Feed Rate to Scrubber per Minn. R. 7017.2035, subp. 2.** | **Column A: Tested Value** | **Column B: Proposed Operating Limit** |
| Average of feed rate during Hydrochloric Acid (HCl) runs.  1) Compliant HCl test.  2) Report the additive feed rate for each of the three runs in Column A.  3) Calculate the average and report in Column B. | Run 1:  Run 2:  Run 3:  Average: | lb/hr during each hour of waste combustor unit operation, to be measured and recorded at least once every eight hours *(unless more specific conditions are required in an applicable compliance document)* |

\* “Four-hour Block average” is the arithmetic average of all measurements between 12:00 a.m. to 4:00 a.m.; 4:00 a.m. to 8:00 a.m.; 8:00 a.m. to 12:00 p.m.; 12:00 p.m. to 4:00 p.m.; 4:00 p.m. to 8:00 p.m.; and 8:00 p.m. to 12:00 a.m.

\*\* If dioxins and mercury are both controlled by the same additive (such as carbon), then the proposed operating limit must satisfy both sets of requirements. For example, a mercury test at a two lb/hr carbon feed rate does not override a three lb/hr carbon feed rate limit established by a dioxin test.

**Note:**

* This form is intended for convenient reporting of operating data and calculation of applicable operating limits. The form is not intended to identify all applicable rules, to set operating conditions, or to constitute any kind of determination by the MPCA. For example, the MPCA may need to take additional rules into account when calculating operating limits after a test failure or after a retest has been conducted.
* This form provides only a summary of the operating conditions during the performance test. Additional and more detailed records must be included in the test report to meet the requirements of Minn. R. 7017.2035. This form is to be submitted as part of the performance test report.