

Testing Procedures for Cedar Grove Compost Maple Valley Tipping and Grinding Buildings – Modified 7-15-2013

1. Approximate dates for testing: July 1; Oct 1; January 1; Apr 1. These dates identify calendar quarterly periods but do not replace the testing period requirements specified in Order of Approval 10456, condition 15.
2. Tests will proceed regardless of climatic conditions unless there are safety concerns or Cedar Grove would not process (receive or handle) waste due to existing climatic conditions. All tests of the Tipping and Grinding Buildings will be recorded, including those not being performed under the Order of Approval requirement, even if not completed. State reason(s) for not completing scheduled testing if cancelled once scheduled or terminated once started. The tester or person observing the test shall sign and date a written report immediately following a test, including any scheduled tests cancelled or terminated once started.
3. Record the following in a written report just prior to beginning a scheduled test:
 - a. Wind speed in mph
 - b. Wind direction (bearing) in magnetic degrees
 - c. Ambient temperature in degree F
 - d. Precipitation, noted or not.
 - e. Volume of waste in building being tested estimated in cubic yards and estimated percentage of floor area coverage. Measure and record the location in the building in feet from the main door opening to the location where the smoke emitter is to be positioned during the test. See no. 7 below. Record volume of waste on video recorder.
 - f. Values from continuous parameter monitoring system (CPMS), temperature, static pressure and velocity pressure.
 - g. Date and time of day when the test begins. Video cameras internal clocks must match time and date. As an alternative, use a cell phone (date and time displayed) placed simultaneously in front of both video cameras at the start and end of the smoke test as an alternative for demonstrating the cameras are operating at the same time.
 - h. Biofilter media depth in feet
 - i. Position of building doors and record position of building doors on video recorder.
 - j. All records required under Order of Approval 10456, conditions 14 and 15.
 - k. Record total tons of waste received on date of testing at the end of the business day in the written report.
5. Testing shall occur under normal operating conditions, absent truck, trailer and equipment activity (or any other safety consideration) at time of testing per the discretion of Cedar Grove. Note and record activity in building being tested just prior, during and immediately following testing in the written report.
6. Begin video recording before igniting smoke emitter. Use two Superior Candle #3WC (or Agency approved equivalent) in line with wicks attached together so the first once spent ignites the second to assure a minimum three minute burn time.

7. Place and start the smoke emitter at ground level at a location where waste material is not extending and will not extend beyond following test and will not be handled beyond following test. Handling includes the loading of material into a grinder for processing.

8. Video record the smoke cloud continuously during the test with a video recorder affixed to a camera tripod (or other fixed device) with the biofilter intake pipe clearly visible in wide angle mode. Another video camera shall be positioned affixed to a camera tripod (or other fixed device) at the main door opening of the building being tested directed at a location to capture any visible smoke exiting the building main doors in wide angle mode. A contrasting background (smoke different color than background) shall be used when observing for visible smoke exiting the main door openings. For the tipping building, the video recorder shall be directed to show the main door opening area closest to the grinder in wide angle mode.

10. Testing shall occur for a minimum of 15 continuous minutes. After 15 minutes, the video recordings can cease and the testing will be complete. Record in the test report, the test end date and time of any test once started. Tests shall be deemed incomplete and not performed if video recordings are not continuous for a minimum of 15 minutes or test procedures not followed.

11. Record whether the test resulted in any recorded or observed visible smoke exiting the building in the written report. Smoke recorded or observed exiting the building (excluding the biofilter) at any opening will be recorded as a failed test under Order of Approval 10456 Condition 14 and a reportable deviation per Condition 21. No visible smoke recorded or not observed exiting the building (excluding the biofilter) at any opening can be recorded as a passing test under Order of Approval 10456 Condition 14.