

**CLARK COUNTY**  
**DEPARTMENT OF AIR QUALITY**  
*4701 W. Russell Road, Suite 200, Las Vegas, Nevada 89118*  
**Authority to Construct for a Part 70 Source**

**Source: 17873**

Issued in accordance with the  
Clark County Air Quality Regulations (AQR)

**ISSUED TO: Stericycle, Inc.**

**SOURCE LOCATION:**

Grand Valley Parkway  
Las Vegas, Nevada 89165  
60045  
T18S, R63E, Section 15  
Hydrographic Basin Number: 216

**COMPANY ADDRESS:**

28161 North Keith Drive  
Lake Forest, Illinois

**NATURE OF BUSINESS:**

SIC Code 4953: Refuse Systems  
NAICS Code 562213: Solid Waste Combustors and Incinerators

**RESPONSIBLE OFFICIAL:**

Name: Dale Rich  
Title: Vice President, Incinerators  
Phone: (704) 787-3134

**ENVIRONMENTAL CONTACT:**

Name: Jim Nold  
Phone: (618) 781-6625

**Permit Issuance: January 9, 2018**

**ISSUED BY: CLARK COUNTY DEPARTMENT OF AIR QUALITY**



Marci Henson, Director  
Department of Air Quality

## EXECUTIVE SUMMARY

Stericycle, Inc., is a hospital, medical, and infectious waste incinerator (HMIWI) facility located in the Hydrographic Area of 216. This source category falls under Standard Industry Classification (SIC) code 4953: Refuse Systems and North American Industrial Classification System (NAICS) code 562213: Solid Waste Combustors and Incinerators. This is a minor source of regulated air pollutants. This source consists of two 17.5 MMBtu/hr natural gas-fired incinerators (approximately 34.5 MMBtu/hr waste-burning), two 3.5 MMBtu/hr natural gas-fired tub washers, an emergency generator, and a dry sorbent storage silo. The source will process a maximum of 26,280 tons per year of waste. Bottom ash and fly ash handling are classified as insignificant emission units. This source is subject to 40 CFR 60 Subpart IIII and 40 CFR 60 Subpart Ec and is required to obtain a Title V Operating Permit per 40 CFR 60.50c(l).

The following table identifies the source status based on the PTE of each regulated air pollutant. These PTE values are not intended to be enforced as emission limits by direct measurement unless otherwise noted in Section III of this permit.

### Source-Wide PTE in Tons per Year

Pollutant	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	CO	SO <sub>2</sub>	VOC	HAP
Source Total	4.27	4.27	43.71	5.66	3.11	1.77	3.05

The issuance of the Authority to Construct (ATC) to Stericycle is based on the information submitted by the applicant and a technical review performed by Air Quality staff.

Pursuant to AQR 12.4, all terms and conditions in Sections I through V in this ATC are federally enforceable unless explicitly denoted otherwise.

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## I. ACRONYMS

**Table I.1: List of Acronyms**

<b>Acronym</b>	<b>Term</b>
Air Quality	Clark County Department of Air Quality
AQR	Clark County Air Quality Regulations
ATC	Authority to Construct Certificate or Authority to Construct
Cd	Cadmium
CE	Control Efficiency
CEMS	Continuous Emissions Monitoring System
CFR	United States Code of Federal Regulations
CO	Carbon Monoxide
EPA	United States Environmental Protection Agency
EU	Emission Unit
Gr/bscf	Grains per billion dry standard cubic foot
Gr/dscf	Grains per dry standard cubic foot
Gr/mscf	Grains per thousand dry standard cubic foot
HCl	Hydrogen Chloride
Hg	Mercury
HMIW	Hospital/Medical/Infectious Waste
HMIWI	Hospital/Medical/Infectious Waste Incineration
HP	Horse Power
kW	kilowatt
mg/dscm	Milligrams per dry standard cubic meter
MMBtu	Millions of British Thermal Units
NAICS	North American Industry Classification System
Ng/dscm	Nanograms per dry standard cubic meter
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards
OP	Operating Permit
Pb	Lead
PM <sub>2.5</sub>	Particulate Matter less than 2.5 microns
PM <sub>10</sub>	Particulate Matter less than 10 microns
ppm	Parts per Million
PTE	Potential to Emit
scf	Standard Cubic Feet
SIC	Standard Industrial Classification
SNCR	Selective Non-Catalytic Reduction
SO <sub>2</sub>	Sulfur Dioxide
TEQ	Toxic Equivalent Quantity
VE	Visible Emissions
VOC	Volatile Organic Compound

## II. GENERAL CONDITIONS

### A. General Requirements

1. No person shall begin actual construction of a New Part 70 source, or modify or reconstruct an existing Part 70 source that falls within the preconstruction review applicability criteria, without first obtaining an ATC Permit from the Control Officer. *[AQR 12.4.1.1(a)]*
2. The Permittee shall post the permit in a location which is clearly visible and accessible to the facility's employees and representatives of the department. *[AQR 12.4.3.1(e)(16) and 12.13]*
3. The Permittee shall commence the construction, modification, or reconstruction of this source within eighteen (18) months after the date of issuance of this ATC Permit and construction shall not be discontinued for a period greater than twelve (12) months. *[AQR 12.4.1.1(b)]*
4. The Permittee shall submit an application for a Part 70 Operating Permit within twelve (12) months after commencing operation of the modification or reconstruction authorized by the ATC, or on or before such earlier date that the Control Officer may establish. However, where an existing Part 70 Operating Permit would prohibit such construction or change in operation, the source must obtain a Part 70 permit revision before commencing operation. *[AQR 12.4.3.1(e)]*
5. This ATC does not convey any property rights or any exclusive privilege. *[AQR 12.4.3.1(e)(6)]*
6. The Permittee shall pay all fees assessed pursuant to AQR Section 18. *[AQR 12.4.3.1(e)(17)]*

### B. Modification, Revision, Renewal Requirements

1. The Permittee shall file an application for any change in the Responsible Official of the source and may implement the change immediately upon submittal of the request. *[AQR 12.4.3.4(a)(1)(D) and 12.4.3.4(a)(2)(C)]*
2. The Permittee shall file an application for a transfer of ownership at least 30 days prior to the date of a change in ownership or operational control of the source and such application shall constitute a temporary ATC under the conditions of the existing permit. *[AQR 12.12.2(c) and (d)]*
3. The Control Officer may revise, revoke and re-issue, re-open and revise, or terminate the permit for cause. *[AQR 12.4.3.1(e)(5)]*
4. The Control Officer reserves the right, upon reasonable cause, to modify existing conditions and impose additional new compliance, monitoring and control requirements. *[AQR 12.4.3.1(e)(10)(B) and (C)]*

### **C. Notifications/Providing Information Requirements**

1. The Permittee shall report start of construction, construction interruptions exceeding nine (9) months, and completion of construction to the Control Officer in writing not later than fifteen (15) working days after occurrence of the event. [AQR 12.4.3.1(e)(12)]
2. The Permittee shall provide written notification of the actual date of commencing operation of the source, or for any new emission unit or activity, received by the Control Officer, within fifteen (15) calendar days after such date. [AQR 12.4.3.1(e)(13)]
3. The Permittee shall provide separate written notification for commencing operation for each unit of phased construction, which may involve a series of units commencing operation at different times. [AQR 12.4.3.1(e)(14)]
4. The Permittee shall submit to the Control Officer within fifteen days (15) days after commencing operation any outstanding identification and description that was not previously available for new emission unit(s), as noted in this permit with "TBD."
5. The Permittee shall retain records of all required monitoring and performance demonstration data and supporting information for five (5) years after the date of the sample collection, measurement, report, or analysis. Supporting information includes all records regarding calibration and maintenance of the monitoring equipment, all original strip-chart recordings for continuous monitoring instrumentation, and if applicable, all other records required to be maintained pursuant to 40 CFR 64.9(b). [AQR 12.4.3.1(e)(1) and 40 CFR 60.58c(b)]
6. The Permittee shall allow the Control Officer upon presentation of credentials to:  
[AQR 12.4.3.1(e)(8)]
  - a. Have access to and copy during normal business hours any records that are kept pursuant to the conditions of the permit;
  - b. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices or operations regulated or required under this permit;
  - c. Sample or monitor substances or parameters to determine compliance with the conditions of the permit or applicable requirements; and
  - d. Document alleged violations using devices such as cameras or video equipment.
7. The Permittee shall provide the Control Officer, within a reasonable time, with any information that the Control Officer requests in writing to determine whether cause exists for revising, revoking and re-issuance or terminating the permit, or to determine compliance with the conditions of the permit. Upon request the Permittee shall also furnish to the Control Officer copies of any records required to be kept by the permit, or for information claimed to be confidential, the Permittee may furnish such records directly to the Administrator along with a claim of confidentiality. [AQR 12.4.3.1(e)(7)]

#### **D. Compliance Requirements**

1. The Permittee shall comply with all conditions contained in this ATC. Any noncompliance constitutes a violation and is grounds for an action for non-compliance, revocation and re-issuance or the termination of the permit by the Control Officer, or the re-opening or revising of the permit by the Permittee as directed by the Control Officer. *[AQR 12.4.3.1(e)(3)]*
2. Each of the conditions and requirements of this permit are severable and if any are held invalid, the remaining conditions and requirements continue in effect. *[AQR 12.4.3.1(e)(2)]*
3. The need to halt or reduce activity to maintain compliance with the conditions of the permit is not a defense to noncompliance with any condition of the permit. *[AQR 12.4.3.1(e)(4)]*
4. The Permittee shall report to the Control Officer (4701 West Russell Road, Suite 200 – Second Floor, Las Vegas, Nevada 89118) upon the commencement of operation any upset, breakdown, malfunction, emergency or deviation which cause emissions of regulated air pollutants in excess of any limits set by regulation or by this permit. The report shall be in two parts as specified below: *[AQR 12.4.3.1(e); AQR 25.6.1]*
  - a. Within twenty-four (24) hours of the time the Permittee learns of the excess emissions, the report shall be communicated by phone (702) 455-5942, fax (702) 383-9994, or email: [airquality@clarkcountynv.gov](mailto:airquality@clarkcountynv.gov)
  - b. Within seventy-two (72) hours of the notification required by paragraph (a) above, the detailed written report containing the information required by AQR Section 25.6.3 shall be submitted.
5. The Permittee shall report to the Control Officer with the semi-annual monitoring report all deviations from permit conditions that do not result in excess emissions, including those attributable to malfunction, startup, or shutdown. Reports shall identify the probable cause of each deviation and any corrective actions or preventative measures taken. *[AQR 12.4.3.1(e)]*
6. A responsible official of the source shall certify that, based on information and belief formed after a reasonable inquiry, the statements made in any document required to be submitted by any condition of the permit are true, accurate, and complete. *[AQR 12.4.3.1(e)(9)]*



**E. Performance Testing Requirements**

1. Upon request of the Control Officer, the Permittee shall test or have tests performed to determine the emissions of air contaminants from any source whenever the Control Officer has reason to believe that an emission in excess of that allowed by the Air Quality regulations is occurring. The Control Officer may specify testing methods to be used in accordance with good professional practice. The Control Officer may observe the testing. All tests shall be conducted by reputable, qualified personnel. [AQR 4.5]
2. Upon request of the Control Officer, the Permittee shall provide necessary holes in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants. [AQR 4.6]
3. The Permittee shall submit for approval a performance testing protocol which contains testing, reporting, and notification schedules, test protocols, and anticipated test dates to the Control Officer (4701 W. Russell Road, Suite 200, Las Vegas, NV 89118) not less than 45, nor more than 90 days prior to the anticipated date of the performance test. [AQR 12.4.3.1(e)]
4. For sources subject to 40 CFR Part 60, the Permittee shall submit to EPA for approval any alternative test methods that are not already approved by EPA, to demonstrate compliance with a requirement under 40 CFR Part 60. [40 CFR 60.8(b)]
5. The Permittee shall submit a report describing the results of each performance test to the Control Officer within 60 days from the end of the performance test. [AQR 12.4.3.1(e)]

**III. EMISSION UNITS AND APPLICABLE REQUIREMENTS**

**A. Emission Units**

1. The stationary source covered by the Part 70 OP consists of the emission units and associated appurtenances summarized in Table III.A.1. [ATC Application (17873\_20161010\_APP)]

**Table III-A-1: List of Emission Units**

EU	Rating	Type	Manufacturer	Model No.	Serial No.
A01	17.5 MMBtu/hr Natural Gas; ~34.5 MMBtu/hr Waste	Incinerator; 3,000 lb/hr	TBD	TBD	TBD
A02	17.5 MMBtu/hr Natural Gas; ~34.5 MMBtu/hr Waste	Incinerator; 3,000 lb/hr	TBD	TBD	TBD
A03	3.5 MMBtu/hr	Natural Gas-Fired Tub Washer	TBD	TBD	TBD
A04	3.5 MMBtu/hr	Natural Gas-Fired Tub Washer	TBD	TBD	TBD



EU	Rating	Type	Manufacturer	Model No.	Serial No.
B01	644 kW	Genset – Emergency	TBD	TBD	TBD
	864 hp	Engine – Diesel DOM: Post-2006 Tier 2 or Better			
C01	22,000 lb/hr	Dry Sorbent Storage Silo	TBD	TBD	TBD
D01		Ash Loading			

**Table III-A-2: Insignificant Activities**

Description
Paved Haul Roads

**B. Emission Limitations and Standards**

**1. Emission Limits**

- a. The Permittee shall not discharge into the atmosphere, from the incineration exhaust gas stream, any air contaminant in excess of an average of 6 percent opacity for a period of more than 6 consecutive minutes. *[40 CFR 60.52c(b)(2)]*
- b. The Permittee shall not discharge into the atmosphere, visible emissions of combustion ash from an ash conveying system, in excess of an average of 5 percent of the observation period. This emission limit does not cover visible emissions discharged inside buildings or enclosures of ash conveying systems; however, the emission limit does cover visible emissions discharged to the atmosphere from buildings or enclosures of ash conveying systems. The emission limit does not apply during maintenance and repair of ash conveying systems. *[40 CFR 60.52c(c), 40 CFR 60.52c(d), and 40 CFR 60.52c(e)]*
- c. The Permittee shall not discharge into the atmosphere, from any emission unit, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes. *[AQR 26.1.1]*
- d. The Permittee shall not allow the actual emissions from each emission unit (EUs: A01 and A02) to exceed the emission concentrations listed in Table IV-B-1 demonstrated through performance test. The emission limits apply at all times including startup and shutdown. *[40 CFR 60.52c(a)(2) and 40 CFR 60.56c(a)]*

**Table IV-B-1: Emission Concentrations**

Pollutant	Emissions Limit Value	Units (7% O <sub>2</sub> , dry basis) Based on a 3-run average except as noted
PM	18 (0.0080)	mg/dscm (gr/dscf)
CO	11	ppmv (24-hour block average as measured by CEMS)
Dioxins/ Furans	9.3 (4.1) or 0.035 (0.015)	ng/dscm (gr/Bdscf) or ng/dscm TEQ (gr/Bdscf TEQ)
HCl	5.1	ppmv
SO <sub>2</sub>	8.1	ppmv
NO <sub>x</sub>	140	ppmv
Pb	0.00069 (0.00030)	mg/dscm (gr/Mdscf)

Pollutant	Emissions Limit Value	Units (7% O <sub>2</sub> , dry basis) Based on a 3-run average except as noted
Cd	0.00013 (0.000057)	mg/dscm (gr/Mdscf)
Hg	0.0013 (0.00057)	mg/dscm (gr/Mdscf)

## 2. Operational Limitations

- a. The Permittee shall limit the combined total amount of waste processed to 26,280 tons per year (EUs: A01 and A02). *[ATC Application (17873\_20161010\_APP)]*
- b. The Permittee shall only operate the incinerators (EUs: A01 and A02) when a fully trained and qualified HMIWI operator is accessible, either at the source or available within 1 hour. *[40 CFR 60.53c(a)]*
- c. The Permittee shall limit the operation of the emergency generator (EU: B01) for testing and maintenance purposes to 100 hours per year. The Permittee may operate the emergency generator up to 50 hours per year for nonemergency situations, but those hours count towards the 100 hours provided for testing and maintenance. The emergency generator(s) cannot be used for peak shavings or demand response. *[40 CFR Part 60, Subpart IIII]*
- d. The Permittee shall limit the loading of the DSI storage silo (EU: C01) to 36 hours per year. *[ATC Application (17873\_20161010\_APP)]*

## 3. Emission Controls

### Fuel Burning Equipment

- a. The Permittee shall combust only natural gas, HMIW, and other approved waste streams in the incinerators. *[ATC Application (17873\_20161010\_APP)]*
- b. The Permittee shall combust only natural gas in the tub washers. *[ATC Application (17873\_20161010\_APP)]*
- c. The Permittee shall operate and maintain all incinerators and tub washers in accordance with the manufacturer's specifications. *[ATC Application (17873\_20161010\_APP)]*

### Diesel Generator

- d. The Permittee shall operate and maintain the diesel generator in accordance with the manufacturer's specifications (EU: B01). *[ATC Application (17873\_20161010\_APP)]*
- e. The Permittee shall combust only diesel fuel in the diesel generator (EU: B01). *[ATC Application (17873\_20161010\_APP)]*

### Other

- f. The Permittee shall not cause, suffer or allow the discharge from any source whatsoever such quantities of air contaminants or other material which cause a nuisance, including excessive odors. *[AQR 40 and AQR 43]*

- g. The Permittee shall prepare a waste management plan per the requirements of 40 CFR 60.55c.
- h. The Permittee shall operate emissions control devices for individual emission units as indicated in Table IV-B-3, and in accordance with the control requirements listed elsewhere in this permit. *[ATC Application (17873\_20161010\_APP)]*

**Table IV-B-3: Summary of Add-On Control Devices**

EU	Device Type	Manufacturer	Model No.	Serial No.	Pollutant
A01 and A02 <sup>1</sup>	SNCR				NO <sub>x</sub>
	Carbon Injection				Dioxin/Furans Gaseous - Hg
	Dry Scrubber				SO <sub>2</sub> HCl
	Fabric Filter				PM <sub>10</sub> Pb Cd Dioxin/Furans Particulate - Hg
	Wet Gas Scrubber				SO <sub>2</sub> HCl
	Carbon Bed				Dioxin/Furans Gaseous - Hg

<sup>1</sup>Each incinerator will have its identical control devices on its individual process stream.

### C. Monitoring

#### Visible Emissions *[AQR 12.4.3.1(e)]*

1. The Permittee shall conduct a daily visual emissions check for visible emissions from the facility while it is in operation.
2. If the Permittee, during the visible emissions check, does not see any plume that, on an instantaneous basis, appears to exceed the opacity standard, then the observer shall keep a record of the name of the observer, the date on which the observation was made, the location, and the results of the observation.
3. If the Permittee sees a plume that, on an instantaneous basis, appears to exceed the opacity standard, the Permittee shall:
  - a. take immediate action to correct causes of fugitive/stack emissions that appear to exceed allowable opacity limits; or
  - b. if practical, have a certified VE observer take an EPA Method 9 observation of the plume and record the results, and take immediate action to correct causes of fugitive emissions in excess of allowable opacity limits in accordance with 40 CFR 60 Appendix A: Reference Method 9.
4. Visible emissions checks do not require a certified VE observer, except where visible emissions appear to exceed the allowable opacity limit and exceed 30

seconds in duration, and an EPA Method 9 observation is made to establish it does not exceed the standard.

Waste Incineration

- To demonstrate continuous, direct compliance with 40 CFR Part 60, Subpart Ec, the Permittee shall monitor and record the following parameters at the frequency listed in Table IV-C-1. [40 CFR 60.57c(a)]

**Table IV-C-1: Compliance Monitoring**

Monitoring Requirement	Minimum Frequency		Anticipated Operating Parameter Range
	Data Measurement	Data Recording	
Operating Parameter Monitoring			
Maximum waste charge rate	Continuous	Once per hour	3,000 lb/hr (target)
Maximum fabric filter inlet temperature	Continuous	Once per minute	~300 – 400 °F
Maximum flue gas temperature at the inlet to the carbon bed (or equivalent) system	Continuous	Once per minute	~100 – 200 °F
Minimum secondary chamber temperature	Continuous	Once per minute	~1,700 – 1,900 °F
Minimum CDD/CDF and Hg sorbent flow rate	Hourly	Once per hour	~2 – 4 lb/hr
Minimum DSI sorbent flow rate	Hourly	Once per hour	~50 – 70 lb/hr
Minimum pressure drop across, or minimum horsepower or amperage to the wet scrubber (we gas absorber)	Continuous	Once per minute	~2 – 4 in H <sub>2</sub> O
Minimum scrubber (wet gas absorber) liquor flow rate	Continuous	Once per minute	~100 – 200 gal/min
Minimum scrubber (wet gas absorber) liquor pH	Continuous	Once per minute	~4 – 8 pH
Minimum SNCR reagent flow rate	Hourly	Once per hour	~0.5 – 1.5 gal/hr
Bypass stack position	Continuous	Once per minute	N/A
Bag leak detection system sensor output signal	Continuous	N/A	N/A
Pollutant Monitoring			
CO CEMS	Continuous	N/A	N/A

- The Permittee shall obtain monitoring data at all times during HMIWI operation except during periods of monitoring equipment malfunction, calibration, or repair. At a minimum, valid monitoring data shall be obtained for 75 percent of the operating hours per day for 90 percent of the operating days per calendar quarter that the affected facility is combusting hospital waste and/or medical/infectious waste. [40 CFR 60.57c(e)]
- The Permittee shall ensure that each incinerator (EUs: A01 and A02) undergoes an air pollution control device inspection initially and annually (no more than 12 months following the previous annual air pollution control device inspection), as outlined in paragraphs (f)(1) and (f)(2) of 40 CFR 60.57c. [40 CFR 60.57c(g)]

8. The Permittee shall determine compliance with the PM emissions limit by using a bag leak detection system and meeting the requirements in paragraphs (h)(1) through (h)(12) of 40 CFR 60.57c for each bag leak detection system. *[40 CFR 60.57c(h)]*

#### CEMS

9. To demonstrate continuous, direct compliance with 40 CFR Part 60, Subpart Ec, the Permittee shall install, calibrate, maintain, operate, and certify a CEMS for each incinerator (EUs: A01 and A02) at all times, except during malfunctions, maintenance, calibration, or repair of the CEMS. Each CEMS shall include an automated data acquisition and handling system. The CEMS shall monitor and record CO and diluent O<sub>2</sub>. *[40 CFR 60.56c(c)(4)(ii)]*
10. The Permittee shall submit all periodic audit procedures and QA/QC procedures for CEMS to conform to the provisions of 40 CFR 60 Appendix B and Appendix F. *[40 CFR 60.56c(c)(4)(ii)]*
11. The Permittee shall conduct annual relative accuracy test audits (RATA) of the CO and O<sub>2</sub> CEMS. *[AQR 12.4.3.1(e)]*

#### Generator/Engine *[AQR 12.4.3.1(e)]*

12. The Permittee shall operate each emergency generator engine (EU: B01) with a nonresettable hour meter and monitor the duration of operation for testing, maintenance and non-emergency operation, and separately for emergencies. The nature of the emergency leading to emergency operation shall be documented.

#### **D. Testing**

1. Performance testing shall be performed following the procedures provided under 40 CFR 60 (as amended). Performance testing shall be the instrument for determining compliance with emission limitations set forth in this permit for the incinerators for all pollutants except CO (EUs: A01 and A02). *[AQR 12.4.3.1(e)]*
2. The Permittee shall conduct subsequent performance testing of NO<sub>x</sub>, SO<sub>2</sub>, total dioxins/furans, Pb, Cd, and Hg every five years, within 45 days of the anniversary date of the last successful performance test. *[AQR 12.4.3.1(e)]*
3. The Permittee shall conduct subsequent performance testing of PM, HCl, opacity, and the opacity for ash handling system annually, within 45 days of the anniversary date of the last successful performance test. *[40 CFR 60.56c(c)(1) and (2)]*
4. The Permittee may forego performance tests for PM and HCl for the subsequent two years following a performance test if the source meets the conditions of 40 CFR 60.56c(c)(2). *[40 CFR 60.56c(c)(2)]*
5. Performance testing for the applicable incinerators shall comply with the testing protocol requirements identified in Table IV-D-1: *[AQR 12.4.3.1(e)]*

**Table IV-D-1: Performance Testing Protocol Requirements**

Method	Parameter Measured
EPA Reference Method 3, 3A, or 3B	Gas composition analysis, including oxygen concentration
EPA Reference Method 5, 26A, or 29	Particulate matter emissions
EPA Reference Method 7 or 7E	NO <sub>x</sub> emissions
EPA Reference Method 10 or 10B	CO emissions <sup>1</sup>
EPA Reference Method 6 or 6C	SO <sub>2</sub> emissions
EPA Reference Method 9	Opacity
EPA Reference Method 23	Total dioxin/furan emissions
EPA Reference Method 26 or 26A	HCl emissions
EPA Reference Method 29	Pb, Cd, and Hg emissions
EPA Reference Method 22	Fugitive ash emissions

<sup>1</sup>Compliance for CO emissions is demonstrated through CEMS.

## E. Record Keeping

1. The Permittee shall maintain records on site that include, at minimum, the following information: *[AQR 12.4.3.1(e)]*
  - i. monthly amount of diesel fuel purchased (in gallons) for the emergency generator (EU: B01);
  - ii. date and duration of operation of the emergency generator for testing, maintenance, and non-emergency use (EU: B01);
  - iii. date and duration of operation of the emergency generator for emergency use, including documentation justifying use during the emergency (EU: B01);
  - iv. date of training and names of HMIWI operators as required by 40 CFR 60.53c;
  - v. the source's waste management plan as required by 40 CFR 60.55c;
  - vi. the magnitude and duration of excess emissions, notifications, monitoring system performance, malfunctions, corrective actions taken, etc., as required by 40 CFR 60.7;
  - vii. CEMS audit results or accuracy checks, corrective actions, etc., as required by 40 CFR 60, Appendix F, and the CEMS quality assurance plan;
  - viii. quality assurance plan for all CEMS;
  - ix. results of performance testing as specified in this ATC;
  - x. the following information required by 40 CFR 60, Subpart Ec, and the calendar date of each record: *[40 CFR 60.58c(b)]*
    - a. concentrations of any pollutant listed in §60.52c or measurements of opacity as determined by the continuous emission monitoring system (if applicable);
    - b. results of fugitive emissions (by EPA Reference Method 22) tests, if applicable;
    - c. HMIWI charge dates, times, and weights and hourly charge rates;



- d. fabric filter inlet temperatures during each minute of operation, as applicable;
- e. amount and type of dioxin/furan sorbent used during each hour of operation, as applicable;
- f. amount and type of Hg sorbent used during each hour of operation, as applicable;
- g. amount and type of HCl sorbent used during each hour of operation, as applicable;
- h. amount and type of NO<sub>x</sub> reagent used during each hour of operation, as applicable;
- i. secondary chamber temperatures recorded during each minute of operation;
- j. liquor flow rate to the wet scrubber inlet during each minute of operation, as applicable;
- k. horsepower or amperage to the wet scrubber during each minute of operation, as applicable;
- l. pressure drop across the wet scrubber system during each minute of operation, as applicable,
- m. temperature at the outlet from the wet scrubber during each minute of operation, as applicable;
- n. pH at the inlet to the wet scrubber during each minute of operation, as applicable,
- o. records indicating use of the bypass stack, including dates, times, and durations, and
- p. For affected facilities complying with §60.56c(j) and §60.57c(d), the owner or operator shall maintain all operating parameter data collected;
- q. Records of the annual air pollution control device inspections, any required maintenance, and any repairs not completed within 10 days of an inspection or the timeframe established by the Administrator.
- r. Records of each bag leak detection system alarm, the time of the alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action taken, as applicable.
- s. Concentrations of CO as determined by the continuous emissions monitoring system.
- t. Identification of calendar days for which data on emission rates or operating parameters specified in IV-E-1-x (a through s) have not been obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken.



- u. Identification of calendar days, times and durations of malfunctions, a description of the malfunction and the corrective action taken.
  - v. Identification of calendar days for which data on emission rates or operating parameters specified in IV-E-1-x (a through s) exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.
  - w. The results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emissions limits and/or to establish or re-establish operating parameters, as applicable, and a description, including sample calculations, of how the operating parameters were established or re-established, if applicable.
  - x. All documentation produced as a result of the siting requirements of §60.54c;
  - y. Records showing the names of HMIWI operators who have completed review of the information in §60.53c(h) as required by §60.53c(i), including the date of the initial review and all subsequent annual reviews;
  - z. Records showing the names of the HMIWI operators who have completed the operator training requirements, including documentation of training and the dates of the training;
  - aa. Records showing the names of the HMIWI operators who have met the criteria for qualification under §60.53c and the dates of their qualification; and
  - bb. Records of calibration of any monitoring devices as required under §60.57c(a) through (d).
2. The Permittee shall maintain on site and report the following prior to initial startup: [40 CFR 60.58c(a)(2)]
- i. the type(s) of waste combusted;
  - ii. the maximum design waste burning capacity;
  - iii. the anticipated maximum charge rate; and
  - iv. if applicable, the petition for site-specific operating parameters under 40 CFR 60.56c(j).
3. The Permittee shall maintain on site and report the following information semi-annually: [AQR 12.4.3.1(e)]
- i. monthly amount of waste processed;
  - ii. monthly amount of sorbent loaded into the silo (EU: C01);
  - iii. monthly total of operating hours of emergency generator(s) for testing, maintenance, and non-emergency use (EU: B01);
  - iv. monthly total of operating hours of emergency generator(s) for emergency use, including documentation justifying use during the emergency (EU: B01);

4. For all inspections, visible emission checks, and testing required under monitoring, logs, reports, and records shall include at least the date and time, the name of the person performing the action, the results or findings, and the type of corrective action taken (if required). [AQR 12.4.3.1(e)]

**F. Reporting Requirements**

1. The Permittee shall submit semi-annual monitoring reports to Air Quality based on the following requirements. [AQR 12.4.3.1(e)]
  - a. The report shall include a semi-annual summary of each item listed in Recordkeeping Section IV-E-3.
  - b. The report shall be based on six calendar months, which includes partial calendar months.
  - c. The report shall be received by Air Quality within 30 calendar days after the reporting period.
2. The Control Officer reserves the right to require additional reports and reporting to verify compliance with permit conditions, permit requirements, and requirements of applicable federal regulations. [AQR 4.4 and AQR 12.4.3.1(e)]
3. The Permittee shall submit all reports and notifications by the due date listed in Table III-F-1. [AQR 12.4.3.1(e)]

**Table III-F-1: Summary of Required Submission Dates for Various Reports**

Required Report	Applicable Period	Due Date
Semi-annual Report for 1st Six-Month Period	January, February, March, April, May, June	July 30 each year <sup>1</sup>
Semi-annual Report for 2 <sup>nd</sup> Six-Month Period, Any additional annual records required.	July, August, September, October, November, December	January 30 each year <sup>1</sup>
Annual Compliance Certification Report	Calendar Year	January 30 each year <sup>1</sup>
Annual Emission Inventory Report	Calendar Year	March 31 each year <sup>1</sup>
Excess Emission Notification	As Required	Within 24 hours of the time the Permittee first learns of the excess emissions
Excess Emission Report	As Required	Within 72 hours of the notification
Deviation Report	As Required	Along with semi-annual reports <sup>1</sup>
Performance Test Report	As Required	Within 60 days from the end of the test <sup>1</sup>

<sup>1</sup>If the due date falls on a Saturday, Sunday or a Federal or Nevada holiday, then the submittal is due on the next regularly scheduled business day.

## ATTACHMENT 1 - APPLICABLE REGULATIONS EXCERPTS

### Excerpts from Subpart Ec – Standards of Performance for New Stationary Sources: Hospital/Medical/Infectious Waste Incinerators

#### §60.52c Emission limits.

(a) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility shall cause to be discharged into the atmosphere:

(2) From an affected facility as defined in §60.50c(a)(3) and (4), any gases that contain stack emissions in excess of the limits presented in Table 1B to this subpart.

(b) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility shall cause to be discharged into the atmosphere:

(2) From an affected facility as defined in §60.50c(a)(3) and (4), any gases that exhibit greater than 6 percent opacity (6-minute block average).

(c) On and after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility as defined in §60.50c(a)(1) and (2) and utilizing a large HMIWI, and in §60.50c(a)(3) and (4), shall cause to be discharged into the atmosphere visible emissions of combustion ash from an ash conveying system (including conveyor transfer points) in excess of 5 percent of the observation period (*i.e.*, 9 minutes per 3-hour period), as determined by EPA Reference Method 22 of appendix A-1 of this part, except as provided in paragraphs (d) and (e) of this section.

#### §60.53c Operator training and qualification requirements.

(a) No owner or operator of an affected facility shall allow the affected facility to operate at any time unless a fully trained and qualified HMIWI operator is accessible, either at the facility or available within 1 hour. The trained and qualified HMIWI operator may operate the HMIWI directly or be the direct supervisor of one or more HMIWI operators.

(b) Operator training and qualification shall be obtained through a State-approved program or by completing the requirements included in paragraphs (c) through (g) of this section.

(c) Training shall be obtained by completing an HMIWI operator training course that includes, at a minimum, the following provisions:

(1) 24 hours of training on the following subjects:

(i) Environmental concerns, including pathogen destruction and types of emissions;

(ii) Basic combustion principles, including products of combustion;

(iii) Operation of the type of incinerator to be used by the operator, including proper startup, waste charging, and shutdown procedures;

(iv) Combustion controls and monitoring;

(v) Operation of air pollution control equipment and factors affecting performance (if applicable);

(vi) Methods to monitor pollutants (continuous emission monitoring systems and monitoring of HMIWI and air pollution control device operating parameters) and equipment calibration procedures (where applicable);

(vii) Inspection and maintenance of the HMIWI, air pollution control devices, and continuous emission monitoring systems;

(viii) Actions to correct malfunctions or conditions that may lead to malfunction;

(ix) Bottom and fly ash characteristics and handling procedures;

(x) Applicable Federal, State, and local regulations;

(xi) Work safety procedures;

(xii) Pre-startup inspections; and

(xiii) Recordkeeping requirements.

(2) An examination designed and administered by the instructor.

(3) Reference material distributed to the attendees covering the course topics.

(d) Qualification shall be obtained by:

(1) Completion of a training course that satisfies the criteria under paragraph (c) of this section; and

(2) Either 6 months experience as an HMIWI operator, 6 months experience as a direct supervisor of an HMIWI operator, or completion of at least two burn cycles under the observation of two qualified HMIWI operators.

(e) Qualification is valid from the date on which the examination is passed or the completion of the required experience, whichever is later.

(f) To maintain qualification, the trained and qualified HMIWI operator shall complete and pass an annual review or refresher course of at least 4 hours covering, at a minimum, the following:

(1) Update of regulations;

(2) Incinerator operation, including startup and shutdown procedures;

(3) Inspection and maintenance;

(4) Responses to malfunctions or conditions that may lead to malfunction; and

(5) Discussion of operating problems encountered by attendees.

(g) A lapsed qualification shall be renewed by one of the following methods:

(1) For a lapse of less than 3 years, the HMIWI operator shall complete and pass a standard annual refresher course described in paragraph (f) of this section.

(2) For a lapse of 3 years or more, the HMIWI operator shall complete and pass a training course with the minimum criteria described in paragraph (c) of this section.

(h) The owner or operator of an affected facility shall maintain documentation at the facility that address the following:

(1) Summary of the applicable standards under this subpart;

(2) Description of basic combustion theory applicable to an HMIWI;

(3) Procedures for receiving, handling, and charging waste;

(4) HMIWI startup, shutdown, and malfunction procedures;

(5) Procedures for maintaining proper combustion air supply levels;

(6) Procedures for operating the HMIWI and associated air pollution control systems within the standards established under this subpart;

(7) Procedures for responding to periodic malfunction or conditions that may lead to malfunction;

(8) Procedures for monitoring HMIWI emissions;

(9) Reporting and recordkeeping procedures; and

(10) Procedures for handling ash.

(i) The owner or operator of an affected facility shall establish a program for reviewing the information listed in paragraph (h) of this section annually with each HMIWI operator (defined in §60.51c).

(1) The initial review of the information listed in paragraph (h) of this section shall be conducted within 6 months after the effective date of this subpart or prior to assumption of responsibilities affecting HMIWI operation, whichever date is later.

(2) Subsequent reviews of the information listed in paragraph (h) of this section shall be conducted annually.

(j) The information listed in paragraph (h) of this section shall be kept in a readily accessible location for all HMIWI operators. This information, along with records of training shall be available for inspection by the EPA or its delegated enforcement agent upon request.

#### **§60.54c Siting requirements.**

(a) The owner or operator of an affected facility for which construction is commenced after September 15, 1997 shall prepare an analysis of the impacts of the affected facility. The analysis shall consider air pollution control alternatives that minimize, on a site-specific basis, to the maximum extent practicable, potential risks to public health or the environment. In considering such alternatives, the analysis may

consider costs, energy impacts, non-air environmental impacts, or any other factors related to the practicability of the alternatives.

(b) Analyses of facility impacts prepared to comply with State, local, or other Federal regulatory requirements may be used to satisfy the requirements of this section, as long as they include the consideration of air pollution control alternatives specified in paragraph (a) of this section.

(c) The owner or operator of the affected facility shall complete and submit the siting requirements of this section as required under §60.58c(a)(1)(iii).

#### **§60.55c Waste management plan.**

The owner or operator of an affected facility shall prepare a waste management plan. The waste management plan shall identify both the feasibility and the approach to separate certain components of solid waste from the health care waste stream in order to reduce the amount of toxic emissions from incinerated waste. A waste management plan may include, but is not limited to, elements such as segregation and recycling of paper, cardboard, plastics, glass, batteries, food waste, and metals (e.g., aluminum cans, metals-containing devices); segregation of non-recyclable wastes (e.g., polychlorinated biphenyl-containing waste, pharmaceutical waste, and mercury-containing waste, such as dental waste); and purchasing recycled or recyclable products. A waste management plan may include different goals or approaches for different areas or departments of the facility and need not include new waste management goals for every waste stream. It should identify, where possible, reasonably available additional waste management measures, taking into account the effectiveness of waste management measures already in place, the costs of additional measures, the emissions reductions expected to be achieved, and any other environmental or energy impacts they might have. The American Hospital Association publication entitled "An Ounce of Prevention: Waste Reduction Strategies for Health Care Facilities" (incorporated by reference, see §60.17) shall be considered in the development of the waste management plan. The owner or operator of each commercial HMIWI company shall conduct training and education programs in waste segregation for each of the company's waste generator clients and ensure that each client prepares its own waste management plan that includes, but is not limited to, the provisions listed previously in this section.

#### **§60.56c Compliance and performance testing.**

(a) The emissions limits apply at all times.

(b) The owner or operator of an affected facility as defined in §60.50c(a)(1) and (2), shall conduct an initial performance test as required under §60.8 to determine compliance with the emissions limits using the procedures and test methods listed in paragraphs (b)(1) through (b)(6) and (b)(9) through (b)(14) of this section. The owner or operator of an affected facility as defined in §60.50c(a)(3) and (4), shall conduct an initial performance test as required under §60.8 to determine compliance with the emissions limits using the procedures and test methods listed in paragraphs (b)(1) through (b)(14). The use of the bypass stack during a performance test shall invalidate the performance test.

(1) All performance tests shall consist of a minimum of three test runs conducted under representative operating conditions.

(2) The minimum sample time shall be 1 hour per test run unless otherwise indicated.

(3) EPA Reference Method 1 of appendix A of this part shall be used to select the sampling location and number of traverse points.

(4) EPA Reference Method 3, 3A, or 3B of appendix A-2 of this part shall be used for gas composition analysis, including measurement of oxygen concentration. EPA Reference Method 3, 3A, or 3B of

appendix A-2 of this part shall be used simultaneously with each of the other EPA reference methods. As an alternative to EPA Reference Method 3B, ASME PTC-19-10-1981-Part 10 may be used (incorporated by reference, see §60.17).

(6) EPA Reference Method 5 of appendix A-3 or Method 26A or Method 29 of appendix A-8 of this part shall be used to measure the particulate matter emissions. As an alternative, PM CEMS may be used as specified in paragraph (c)(5) of this section.

(7) EPA Reference Method 7 or 7E of appendix A-4 of this part shall be used to measure NO<sub>x</sub> emissions.

(8) EPA Reference Method 6 or 6C of appendix A-4 of this part shall be used to measure SO<sub>2</sub> emissions.

(9) EPA Reference Method 9 of appendix A-4 of this part shall be used to measure stack opacity. As an alternative, demonstration of compliance with the PM standards using bag leak detection systems as specified in §60.57c(h) or PM CEMS as specified in paragraph (c)(5) of this section is considered demonstrative of compliance with the opacity requirements.

(10) EPA Reference Method 10 or 10B of appendix A-4 of this part shall be used to measure the CO emissions. As specified in paragraph (c)(4) of this section, use of CO CEMS are required for affected facilities under §60.50c(a)(3) and (4).

(11) EPA Reference Method 23 of appendix A-7 of this part shall be used to measure total dioxin/furan emissions.

(12) EPA Reference Method 26 or 26A of appendix A-8 of this part shall be used to measure HCl emissions. As an alternative, HCl CEMS may be used as specified in paragraph (c)(5) of this section.

(13) EPA Reference Method 29 of appendix A-8 of this part shall be used to measure Pb, Cd, and Hg emissions. As an alternative, Hg emissions may be measured using ASTM D6784-02 (incorporated by reference, see §60.17). As an alternative for Pb, Cd, and Hg, multi-metals CEMS or Hg CEMS, may be used as specified in paragraph (c)(5) of this section. As an alternative, an owner or operator may elect to sample Hg by installing, calibrating, maintaining, and operating a continuous automated sampling system for monitoring Hg emissions as specified in paragraph (c)(7) of this section.

(14) The EPA Reference Method 22 of appendix A-7 of this part shall be used to determine compliance with the fugitive ash emissions limit under §60.52c(c). The minimum observation time shall be a series of three 1-hour observations.

(c) Following the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, the owner or operator of an affected facility shall:

(1) Determine compliance with the opacity limit by conducting an annual performance test (no more than 12 months following the previous performance test) using the applicable procedures and test methods listed in paragraph (b) of this section.

(2) Except as provided in paragraphs (c)(4) and (c)(5) of this section, determine compliance with the PM, CO, and HCl emissions limits by conducting an annual performance test (no more than 12 months following the previous performance test) using the applicable procedures and test methods listed in paragraph (b) of this section. If all three performance tests over a 3-year period indicate compliance with the emissions limit for a pollutant (PM, CO, or HCl), the owner or operator may forego a performance test for that pollutant for the subsequent 2 years. At a minimum, a performance test for PM, CO, and HCl shall



be conducted every third year (no more than 36 months following the previous performance test). If a performance test conducted every third year indicates compliance with the emissions limit for a pollutant (PM, CO, or HCl), the owner or operator may forego a performance test for that pollutant for an additional 2 years. If any performance test indicates noncompliance with the respective emissions limit, a performance test for that pollutant shall be conducted annually until all annual performance tests over a 3-year period indicate compliance with the emissions limit. The use of the bypass stack during a performance test shall invalidate the performance test.

(4) For an affected facility as defined in §60.50c(a)(3) and (4), determine compliance with the CO emissions limit using a CO CEMS according to paragraphs (c)(4)(i) through (c)(4)(iii) of this section:

(i) Determine compliance with the CO emissions limit using a 24-hour block average, calculated as specified in section 12.4.1 of EPA Reference Method 19 of appendix A-7 of this part.

(ii) Operate the CO CEMS in accordance with the applicable procedures under appendices B and F of this part.

(iii) Use of a CO CEMS may be substituted for the CO annual performance test and minimum secondary chamber temperature to demonstrate compliance with the CO emissions limit.

(5) Facilities using CEMS to demonstrate compliance with any of the emissions limits under §60.52c shall:

(i) For an affected facility as defined in §60.50c(a)(1) and (2), determine compliance with the appropriate emissions limit(s) using a 12-hour rolling average, calculated each hour as the average of the previous 12 operating hours.

(ii) For an affected facility as defined in §60.50c(a)(3) and (4), determine compliance with the appropriate emissions limit(s) using a 24-hour block average, calculated as specified in section 12.4.1 of EPA Reference Method 19 of appendix A-7 of this part.

(iii) Operate all CEMS in accordance with the applicable procedures under appendices B and F of this part. For those CEMS for which performance specifications have not yet been promulgated (HCl, multi-metals), this option for an affected facility as defined in §60.50c(a)(3) and (4) takes effect on the date a final performance specification is published in the FEDERAL REGISTER or the date of approval of a site-specific monitoring plan.

(iv) For an affected facility as defined in §60.50c(a)(3) and (4), be allowed to substitute use of an HCl CEMS for the HCl annual performance test, minimum HCl sorbent flow rate, and minimum scrubber liquor pH to demonstrate compliance with the HCl emissions limit.

(v) For an affected facility as defined in §60.50c(a)(3) and (4), be allowed to substitute use of a PM CEMS for the PM annual performance test and minimum pressure drop across the wet scrubber, if applicable, to demonstrate compliance with the PM emissions limit.

(d) Except as provided in paragraphs (c)(4) through (c)(7) of this section, the owner or operator of an affected facility equipped with a dry scrubber followed by a fabric filter, a wet scrubber, or a dry scrubber followed by a fabric filter and wet scrubber shall:

(1) Establish the appropriate maximum and minimum operating parameters, indicated in table 3 of this subpart for each control system, as site specific operating parameters during the initial performance test to determine compliance with the emission limits; and

(2) Following the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, ensure that the affected facility does not operate above any of the applicable maximum operating parameters or below any of the applicable minimum operating parameters listed in table 3 of this subpart and measured as 3-hour rolling averages (calculated each hour as the average of the previous 3 operating hours) at all times. Operating parameter limits do not apply during performance tests. Operation above the established maximum or below the established minimum operating parameter(s) shall constitute a violation of established operating parameter(s).

(e) Except as provided in paragraph (i) of this section, for affected facilities equipped with a dry scrubber followed by a fabric filter:

(1) Operation of the affected facility above the maximum charge rate and below the minimum secondary chamber temperature (each measured on a 3-hour rolling average) simultaneously shall constitute a violation of the CO emission limit.

(2) Operation of the affected facility above the maximum fabric filter inlet temperature, above the maximum charge rate, and below the minimum dioxin/furan sorbent flow rate (each measured on a 3-hour rolling average) simultaneously shall constitute a violation of the dioxin/furan emission limit.

(3) Operation of the affected facility above the maximum charge rate and below the minimum HCl sorbent flow rate (each measured on a 3-hour rolling average) simultaneously shall constitute a violation of the HCl emission limit.

(4) Operation of the affected facility above the maximum charge rate and below the minimum Hg sorbent flow rate (each measured on a 3-hour rolling average) simultaneously shall constitute a violation of the Hg emission limit.

(5) Use of the bypass stack shall constitute a violation of the PM, dioxin/furan, HCl, Pb, Cd and Hg emissions limits.

(6) Operation of the affected facility as defined in §60.50c(a)(3) and (4) above the CO emissions limit as measured by the CO CEMS specified in paragraph (c)(4) of this section shall constitute a violation of the CO emissions limit.

(7) For an affected facility as defined in §60.50c(a)(3) and (4), failure to initiate corrective action within 1 hour of a bag leak detection system alarm; or failure to operate and maintain the fabric filter such that the alarm is not engaged for more than 5 percent of the total operating time in a 6-month block reporting period shall constitute a violation of the PM emissions limit. If inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted. If corrective action is required, each alarm is counted as a minimum of 1 hour. If it takes longer than 1 hour to initiate corrective action, the alarm time is counted as the actual amount of time taken to initiate corrective action. If the bag leak detection system is used to demonstrate compliance with the opacity limit, this would also constitute a violation of the opacity emissions limit.

#### **§60.57c Monitoring requirements.**

(a) Except as provided in §60.56c(c)(4) through (c)(7), the owner or operator of an affected facility shall install, calibrate (to manufacturers' specifications), maintain, and operate devices (or establish methods) for monitoring the applicable maximum and minimum operating parameters listed in Table 3 to this subpart (unless CEMS are used as a substitute for certain parameters as specified) such that these devices (or methods) measure and record values for these operating parameters at the frequencies indicated in Table 3 of this subpart at all times.

(b) The owner or operator of an affected facility as defined in §60.50c(a)(3) and (4) that uses selective noncatalytic reduction technology shall install, calibrate (to manufacturers' specifications), maintain, and operate devices (or establish methods) for monitoring the operating parameters listed in §60.56c(h) such that the devices (or methods) measure and record values for the operating parameters at all times. Operating parameter values shall be measured and recorded at the following minimum frequencies:

(1) Maximum charge rate shall be measured continuously and recorded once each hour;

(2) Minimum secondary chamber temperature shall be measured continuously and recorded once each minute; and

(3) Minimum reagent flow rate shall be measured hourly and recorded once each hour.

(c) The owner or operator of an affected facility shall install, calibrate (to manufacturers' specifications), maintain, and operate a device or method for measuring the use of the bypass stack including date, time, and duration.

(d) The owner or operator of an affected facility using an air pollution control device other than a dry scrubber followed by a fabric filter, a wet scrubber, a dry scrubber followed by a fabric filter and a wet scrubber, or selective noncatalytic reduction technology to comply with the emissions limits under §60.52c shall install, calibrate (to manufacturers' specifications), maintain, and operate the equipment necessary to monitor the site-specific operating parameters developed pursuant to §60.56c(j).

(e) The owner or operator of an affected facility shall obtain monitoring data at all times during HMIWI operation except during periods of monitoring equipment malfunction, calibration, or repair. At a minimum, valid monitoring data shall be obtained for 75 percent of the operating hours per day for 90 percent of the operating days per calendar quarter that the affected facility is combusting hospital waste and/or medical/infectious waste.

(f) The owner or operator of an affected facility as defined in §60.50c(a)(3) and (4) shall ensure that each HMIWI subject to the emissions limits in §60.52c undergoes an initial air pollution control device inspection that is at least as protective as the following:

(1) At a minimum, an inspection shall include the following:

(i) Inspect air pollution control device(s) for proper operation, if applicable;

(ii) Ensure proper calibration of thermocouples, sorbent feed systems, and any other monitoring equipment; and

(iii) Generally observe that the equipment is maintained in good operating condition.

**END OF ATC 17873**

**From:** Rich, Dale  
**To:** [Silvia Gonzalez](mailto:Silvia.Gonzalez@ClarkCountyNV.gov)  
**Subject:** RE: DAQ Permit\_TSD\_and Final Action Report for Source ID: 17873\_Stericycle Inc  
**Date:** Thursday, January 18, 2018 10:19:21 AM

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Hi Silvia, I received your voice message and confirm receipt of your email.

Thank you,

Dale Rich  
Stericycle, Inc.

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**From:** Silvia Gonzalez [mailto:[SXG@ClarkCountyNV.gov](mailto: SXG@ClarkCountyNV.gov)]  
**Sent:** Tuesday, January 09, 2018 6:44 PM  
**To:** Rich, Dale  
**Cc:** Nold, Jim  
**Subject:** DAQ Permit\_TSD\_and Final Action Report for Source ID: 17873\_Stericycle Inc  
**Importance:** High

Attached are the Permit, Technical Action Report (FAR) and the Technical Support documents for Source ID: 17873, Stericycle, Inc. The documents should be printed and maintained on site.

If you have any questions, please contact Michael Rael at 702-455-5942.

**Please confirm receipt of this email.**

Thank you.

*Silvia Gonzalez*  
*Office Specialist*  
*Department of Air Quality*  
*Permitting Division*  
*702-455-8007*

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