

3745-75-04 **Monitoring requirements.**

[Comment: For dates of non-regulatory government publications, publications of recognized organizations and associations, federal rules, and federal statutory provisions referenced in this rule, see the last paragraph of rule 3745-75-01 (~~Ⓓ~~) of the Administrative Code titled "~~Incorporation by reference~~ Reference to materials."]

- (A) Each incinerator unit burning hospital or medical/infectious waste shall be equipped with a continuous temperature recorder for the primary and secondary combustion chambers. The instrument shall record a measurement at least once every minute.
- (B) Each medical/infectious waste incinerator with a capacity greater than one thousand pounds per hour shall be equipped with a continuous carbon monoxide monitor and alarm. The alarm shall indicate whenever concentrations exceed one hundred fifty parts per million.
- (C) All facilities that operate an infectious waste incinerator shall install, maintain and operate a radioactivity monitor and alarm. The radioactivity monitor shall be installed to monitor all medical/infectious waste prior to combustion.
- (D) Any unit that is equipped with a bypass stack shall be equipped with a device to continuously monitor and record the temperature in the bypass stack. The device shall be maintained and calibrated according to manufacturers' specifications and shall record the date, time, and duration of every use of the bypass stack.
- (E) A scale (accurate to within one pound) shall be installed, calibrated (to manufacturers' specifications), and operated to measure the weight of all of the material charged to the unit. A written log shall be kept that records the amount of material charged to any unit on a pounds per hour basis or a pounds per batch basis. Alternative arrangements may be approved by the director provided they can be shown to be of equivalent effectiveness as a method of regulating flow into the incinerator and generating a permanent record of pound per hour charging rates.
- (F) Each medical/infectious waste incinerator with a capacity greater than one thousand pounds per hour shall be equipped with a continuous opacity monitor unless exempted by the director because of the influence of condensed water vapor in the stack exit gas.
- (G) Any continuous opacity or carbon monoxide monitor required under this rule shall be installed and maintained in accordance with ~~volume 40~~ 40 CFR, partPart 60 of the ~~Code of Federal Regulations.~~
- (H) The following operating parameters are to be measured and recorded at the stated minimum frequencies for HMIWI units equipped with a wet scrubber, or a dry

scrubber followed by a fabric filter:

<i>STRIKE OLD</i>					
	Minimum frequency		HMIWI		
	Data measurement	Data recording	HMIWI with dry scrubber followed by fabric filter	HMIWI with wet scrubber	HMIWI with dry scrubber followed by fabric filter and wet scrubber
<u>Operating parameters to be monitored</u>					
<u>Maximum operating parameters:</u>					
Maximum charge rate	Once per charge	Once per charge	*	*	*
Maximum fabric filter inlet temperature	Continuous	Once per minute	*		*
Maximum flue gas temperature	Continuous	Once per minute		*	*
<u>Minimum operating parameters:</u>					
Minimum secondary chamber temperature	Continuous	Once per minute	*	*	*
Minimum dioxin/furan sorbent flow rate	Hourly	Once per hour	*		*
Minimum HCl sorbent flow rate	Hourly	Once per hour	*		*
Minimum mercury (Hg) sorbent flow rate	Hourly	Once per hour	*		*
Minimum pressure drop across the wet scrubber or minimum horsepower or amperage to wet scrubber	Continuous	Once per minute		*	*
Minimum scrubber liquor flow rate	Continuous	Once per minute		*	*
Minimum scrubber liquor pH	Continuous	Once per minute		*	*

Operating Parameters to be Monitored	Minimum Frequency		HMIWI		
	Data Measurement	Data Recording	HMIWI with Dry Scrubber Followed by Fabric Filter	HMIWI with Wet Scrubber	HMIWI with Dry Scrubber Followed by Fabric Filter and Wet Scrubbers
<u>Maximum Operating Parameters</u>					
Maximum Charge Rate	Once per Charge	Once per Charge	X	X	X
Maximum Fabric Filter Inlet Temperature	Continuous	Once per Minute	X		X
Maximum Flue Gas Temperature	Continuous	Once per Minute		X	X
<u>Minimum Operating Parameters</u>					
Minimum secondary chamber temperature	Continuous	Once per minute	X	X	X
Minimum dioxin/furan sorbent flow rate	Hourly	Once per hour	X		X
Minimum NCL sorbent flow rate	Hourly	Once per hour	X		X
Minimum mercury (HG) sorbent flow rate	Hourly	Once per hour	X		X
Minimum pressure drop across the wet scrubber or minimum horsepower or amperage to wet scrubber	Continuous	Once per minute		X	X
Minimum scrubber liquor flow rate	Continuous	Once per minute		X	X
Minimum scrubber liquor pH	Continuous	Once per minute		X	X

- (I) For HMIWI units not equipped with a wet scrubber, or a dry scrubber followed by a fabric filter, equipment shall be installed, calibrated (to the manufacturers' specifications), maintained, and operated to monitor the site-specific operating parameters developed pursuant to paragraph (U) of rule 3745-75-02 of the Administrative Code.
- (J) The owner or operator of a HMIWI shall record the amount and type of mercury, hydrogen chloride, and dioxin/furan sorbent used during each hour of operation, as applicable.
- (K) The owner or operator of a HMIWI shall install, calibrate (to manufacturers' specifications), maintain, and operate devices (or establish methods) for monitoring the applicable maximum and minimum operating parameters listed in paragraph (H) of this rule such that these devices (or methods) measure and record values for these operating parameters at the frequencies indicated in paragraph (H) of this rule at all times except during periods of startup and shutdown.
- (L) The owner or operator of a HMIWI 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 and recorded for seventy-five per cent of the operating hours per day and for ninety per cent of the operating days per calendar quarter that the affected facility combusts hospital waste and/or medical/infectious waste.

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Certification

08/14/2009

Date

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