2010 ANNUAL STACK TEST RESULTS

			Average Measured Emissions ¹		Permit	Pass/Fail?	
		Constituent	Unit 1	Unit 2	Unit 3	Limit ²	P/F
	FEDERAL	Cadmium (mg/dscm @ 7% O ₂)	5.50E-04	6.51E-03	1.26E-03	3.50E-02	Р
		Cadmium (lb/hr)	8.41E-05	1.06E-03	2.05E-04	1.90E-03	Р
		Carbon Monoxide (lb/hr)	1.01E+00	1.09E+00	1.01E+00	8.04E+00	Р
		Dioxins/Furans (ng/dscm @ 7% O ₂)	2.42E+00	1.03E+00	1.30E+00	3.00E+01	Р
		Hydrogen Chloride (ppmdv @ 7% O ₂)	3.11E+00	2.37E+00	2.53E+00	2.50E+01	Р
		Hydrogen Chloride (lb/hr)	7.14E-01	5.94E-01	6.39E-01	5.24E+00	Р
		Hydrogen Chloride Removal Efficiency (%)	99.5	99.7	99.7	>=95	Р
>		Lead (mg/dscm @ 7% O ₂)	1.44E-02	1.13E-01	2.36E-02	4.00E-01	Р
;		Lead (lb/hr)	2.22E-03	1.84E-02	3.84E-03	3.81E-02	Р
Ιĝ		Mercury (lb/hr)	< 9.49E-05	4.21E-04	1.35E-04	4.00E-03	Р
TESTED ANNUALLY		Nitrogen Oxides (lb/hr)	5.44E+01	5.25E+01	5.32E+01	5.80E+01	Р
		Particulates (gr/dscf @ 7% O ₂)	2.99E-04	6.81E-03	1.52E-03	1.00E-02	Р
		PM ₁₀ (gr/dscf @ 7% O ₂)	4.65E-04	3.18E-03	5.33E-04	1.00E-02	Р
		PM ₁₀ (lb/hr)	1.87E-01	1.29E+00	2.17E-01	3.16E+00	Р
		Sulfur Dioxide (lb/hr)	3.47E+00	6.91E+00	4.50E-01	1.62E+01	Р
	STATE	Ammonia (ppmdv @ 7% O ₂)	< 8.90E-01	< 8.44E-01	1.47E+00	5.00E+01	Р
		Ammonia (lb/hr)	< 9.55E-02	< 9.87E-02	1.73E-01	4.88E+00	Р
		Dioxins/Furans-2,3,7,8 TCDD TEQ (ng/dscm @ 7% O ₂)	2.79E-02	2.27E-02	1.58E-02	4.00E-01	Р
		Dioxins/Furans-2,3,7,8 TCDD TEQ (lb/hr)	4.47E-09	3.38E-09	2.61E-09	1.29E-07	Р
		Mercury (μg/dscm @ 7% O ₂)	< 6.20E-01	2.59E+00	8.20E-01	2.80E+01	Р
		Mercury Removal Efficiency (%)	> 99.5	98.2	99.1	>=85	Р
		Zinc (lb/hr)	6.73E-03	6.97E-02	4.21E-02	1.42E-01	Р

NOTES:

UNITS:

gr/dscf = grains per dry standard cubic foot

ppmdv = parts per million dry volume

lb/hr = pounds per hour

ng/dscm = nanograms per dry standard cubic meter

μg/dscm = microgramsper dry standard cubic meter

mg/dscm = milligrams per dry standard cubic meter

@ $7\% O_2$ = concentration corrected to 7% oxygen

¹ Based on three test runs

² NYSDEC Title V Permit #7-3142-00028/00009 - Draft Renewal

2010 Air Emissions Testing FAQs

Q: What is the purpose of annual air emissions stack testing?

A: Stack testing is an important tool that measures the amount of regulated pollutants being emitted from the facility. Stack testing consists of a series of sampling events, in which a probe is inserted into the stack gases to collect a representative sample, over a defined amount of time. Sampling and subsequent laboratory analysis must be conducted in accordance with New York State Department of Environmental Conservation (NYSDEC) and United States Environmental Protection Agency (USEPA) protocols. NYSDEC oversees stack testing at the Onondaga County Waste-to-Energy (WTE) Facility.

Q: How do the 2010 stack test results look?

A: The results from the 2010 stack testing indicate that **the facility is operating acceptably** and that the **air pollution control devices are functioning properly**. As shown by the summary data, many of the parameters were considerably below the permit limit.

Q: Does the facility conduct any other air emissions testing besides the annual stack testing?

A: Yes. The facility has a continuous emission monitoring system (CEMS) that measures equipment performance and stack emissions. The CEMS monitors carbon monoxide, carbon dioxide, oxygen, sulfur dioxide, and nitrogen oxides (NOx) as well as ammonia, opacity, and combustion temperatures.

Q: What is the status of the Facility Air (Title V) Permit?

A: A complete and timely permit renewal application was submitted to NYSDEC. NYSDEC then conducted a public comment period and public hearing in 2009. NYSDEC is currently completing the responsiveness summary to address the comments received and then the draft permit renewal will be submitted to the USEPA. Pursuant to 621.11(L) of the Uniform Procedures Act and Section 401(2) of the State Administrative Procedure Act, the existing permit does not expire until the renewal process is complete.

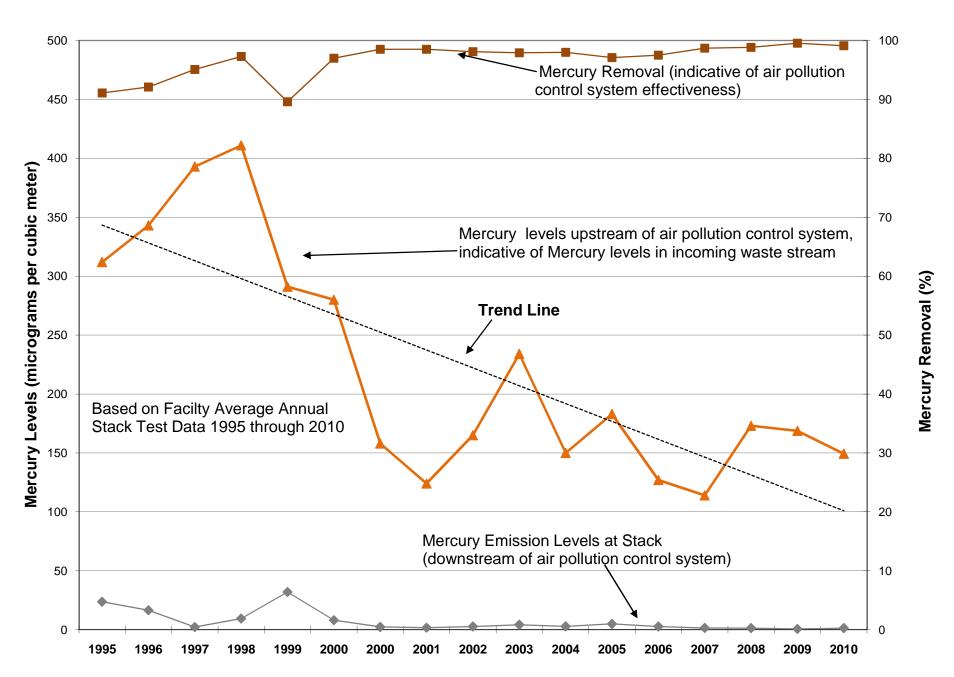
Q: What is the difference between the draft Facility Air (Title V) Permit prepared by NYSDEC and the existing NYSDEC Facility Air Permit?

A: The major difference between the draft air permit and the existing air permit are that the permit limits for several parameters were reduced for compliance with new federal regulations. The testing frequency for zinc was also changed from every five years to annually so that a Facility-specific permit limit for zinc can be established. The zinc limit in the existing permit is not a health-based limit and was based on very limited information available during the early 1990s from other out-of-state WTE facilities. During the four years of data collection (2009-2012) and afterwards, zinc emissions must not exceed the levels determined as acceptable in the facility's Health Risk Assessment.

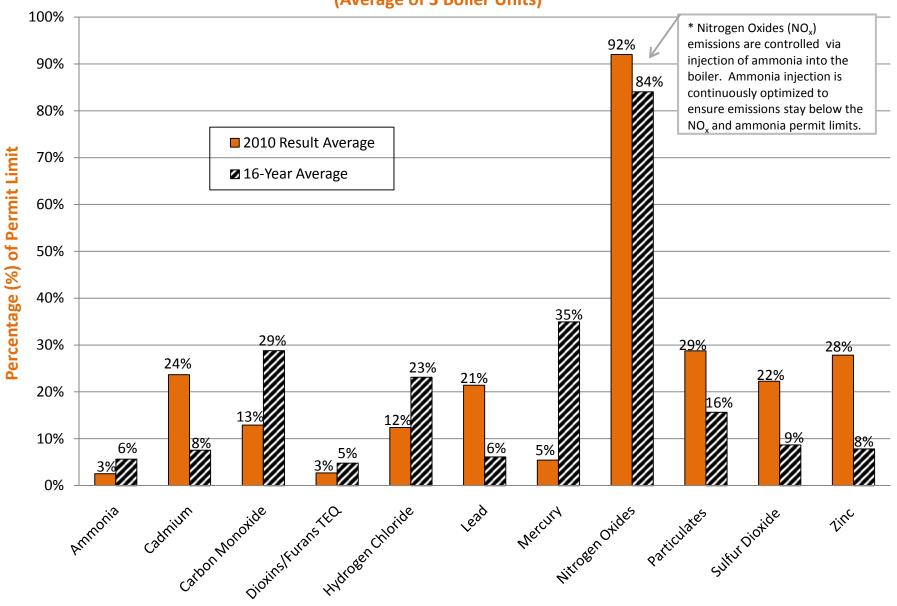
Q: Who can I contact for more information?

A: For more detailed information on the test results please contact OCRRA's Agency Engineer, Amy Lawrence, at **453.2866** or **alawrence@ocrra.org**. For additional questions of OCRRA's Public Information Officer, please contact Kristen Lawton at **295.0733** or **klawton@ocrra.org**.

Facility Mercury Emissions & Air Pollution Control System Effectiveness



Comparison of Long-Term Facility Average to 2010 Test Results (Average of 3 Boiler Units)



2010 ASH RESIDUE CHARACTERIZATION TEST RESULTS									
Semi-Annual Test Results - May 2010									
Constituent	Test Result	Permit Limit	Pass or Fail						
Cadmium	0.12 mg/L	1 mg/L	Pass						
Lead	0.25 mg/L	5 mg/L	Pass						
Semi-Annual Test Results - Sept./Oct. 2010									
Constituent	Test Result	Permit Limit	Pass or Fail						
Cadmium	0.60 mg/L	1 mg/L	Pass						
Lead	0.25 mg/L	5 mg/L	Pass						
CONCLUSION									
Ash residue does NOT exhibit a hazardous characteristic. As such, it should continue to be managed as a non-hazardous solid waste.									

2010 Ash Testing FAQs

Q: What is the purpose of the semi-annual ash testing and how do the 2010 results look?

A: A representative sample of combined bottom and fly ash is collected according to NYSDEC protocols. This sample is then analyzed by an independent laboratory for leachable metals, according to EPA's Toxicity Characteristic Leaching Procedure (TCLP). TCLP analysis simulates landfill conditions (the final disposal site for the ash) and determines whether the ash exhibits hazardous characteristics. Over the life of the facility (including the first testing event in 2010), TCLP analysis has always indicated that the ash is non-hazardous.

Q: Who can I contact for more information?

A: For more detailed information on the test results please contact OCRRA's Agency Engineer, Amy Lawrence, at **453.2866** or **alawrence@ocrra.org**. For additional questions of OCRRA's Public Information Officer, please contact Kristen Lawton at **295.0733** or **klawton@ocrra.org**.