

MULTIPLE HEARTH FURNACE IMPROVEMENTS

PROJECT DATA SHEET



EXHAUST STACKS AFTER UPGRADE

One of these incinerators is running. Which one is it?

LOCATION

Eastern US

PROJECT DESCRIPTION

IFCO rehabbed and upgraded two of the customer's three furnaces in 1998, when the third furnace was "mothballed." In 2009, it was decided to use the furnaces' off-gasses for electrical power generation. To do this, the third furnace was needed as a "spare." The project was completed in two phases, and included upgrading the third furnace with a new flue gas recirculation system, new burners and controls, and a new EnviroCare VenturiPak scrubber. The scrubbers were also upgraded on the other two furnaces to keep them operating as state-of-the-art systems, and keep them in compliance with the new EPA Section 60, Subpart M regulation. Dampers and new ductwork were also added to incorporate a new power generation plant.

IFCO'S ROLE

Design phase engineering assistance, equipment supplier, installation, commissioning

VALUE

\$3 Million

COMPLETED

2012

ACTUAL TEST RESULTS 2011

COMPARED TO NEW REGULATIONS FOR EXISTING MHFs

	Cadmium mg/dscm	CC/CDF, TEQ mg/dscm	CO ppmvd	HCL ppmvd	Mercury Mg/dscm	NOx ppmvd	Lead mg/dscm	Particulate mg/dscm	SO2 ppmvd
ALLOWABLE LIMITS	0.095	0.032	3800	1.2	0.28	220	0.3	80	26
TEST	0.0011	0.0022	163.35	0.274	0.055	59.09	0.0025	6.31	5.50
IN COMPLIANCE?	✓	✓	✓	✓	✓	✓	✓	✓	✓
COMPLIANCE % OF ALLOWABLE	1.2%	0.7%	4.3 %	22.8%	19.7%	26.9%	0.8%	7.9%	21.2%



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