GIANT
YORKTOWN REFINERY

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GRAFTON
VIRGINIA
23692

December 29, 2003

Certified Mail

Director Air Enforcement
Office of Regulatory Enforcement
U.S. Environmental Protection Agency
Mail Code 2242-A, Ariel Rios Building
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460-0001

Re: Northern District of Indiana, Hammond Division
Civil action No. 2:96 CV 095 RL
Giant Yorktown Refinery
Annual Heater and Boiler Update, Paragraph 15: Yorktown Refinery

For Information Only – No EPA Action Required

Dear Madam or Sir:

Attached please find the Annual Heater and Boiler Update for the Giant Yorktown Refinery. Paragraph 15.H.iii of the above captioned Consent Decree requires that Giant submit a report to EPA updating information on NOx controls for heaters and boilers.

Should you have any questions regarding this information, please contact Peter G. Buckman at (757) 898-9673.

Sincerely,

David C. Pavlich

David C. Pavlich
Manager, HSE

Attachment

cc:

Director, Air Enforcement Division U.S. Environmental Protection Agency c/o MATRIX Environmental & Geotechnical Services 215 Ridgedale Ave. Florham Park, NJ 07932	via Certified Mail
Ms. Jane A. Workman Tidewater Regional Office Department of Environmental Quality 5636 Southern Boulevard Virginia Beach, Virginia 23462	via Certified Mail
David Kirby Giant Industries, Inc. 23733 N. Scottsdale Rd. Scottsdale, AZ 85255	via USPS
Thomas Gleave USEPA, Region 3	via email (gleave.thomas@epa.gov)
Nathan Frank USEPA, Region 5	via email (frank.nathan@epa.gov)
Mario Jorquera USEPA	via email (jorquera.mario@epa.gov)
Norma Eichlin MATRIX	via email (neichlin@matrixegs.com)

Giant Yorktown Refinery
Annual Heater and Boiler Update Report 2003

Listing of Heaters and Boilers >40 mmbtu/hr Firing Capacity
The following information is provided according to Paragraph 15.H.iii of the consent decree.

		For each he/bo controls already installed as per 15.E				For each he/bo expected to have controls installed in 2004 as per 15.E				Additional he/bo expected to be controlled	Demonstration that control of he/bo in (b)-(c) meet requirements of 15.D		Annual emissions of remaining he/bo not anticipated to be controlled		
		(a)	(a)	(a)	(a)	(b)	(b)	(b)	(b)	(c)	(d)	(d)	(e)	(e)	(e)
Source	Unit	NOx Controls installed?	Control Technology Installed	NOx Emission Rate	Basis for Estimate	Expected to Be installed in 2004?	Control Technology Installed	NOx Emission Rate	Basis for Estimate	NOx Controls Expected to Be Installed In Future?	Source Maximum Firing Rate	Sources to Be Controlled (see note 3)	Estimated Actual NOx Emission Rate	Basis for Estimate	Estimated Annual NOx Emissions (see note 4)
		(Y/N)	(see note 1)	(lb/mmbtu)	(see note 2)	(Y/N)	(see note 1)	(lb/mmbtu)	(see note 2)	(Y/N)	(mmbtu/hr)	(mmbtu/hr)	(lb/mmbtu)	(see note 2)	(tons)
B-101 (Crude Furnace)	CRUDE	N				N				N	311		0.17	EF	161
BOILERS 1	UTIL	N				N				Y	137.5	137.5			
BOILERS 2	UTIL	N				N				Y	137.5	137.5			
BA-101 (DCU)	COKER	N				N				N	97		0.10	EF	34
B-102 (Ultra)	ULTRA	N				N				N	79		0.07	ST	13
(Vacuum Furnace)	CRUDE	N				N				N	79		0.10	EF	24
(Ultra)	ULTRA	N				N				N	50		0.10	EF	20
F-101 (DDU)	ULTRA	N				N				Y	44	44			

Sum (mmbtu/hr): 935 319 Sum (tons): 252
Percent Controls (%): 34.1

Notes:
(1) ULNB = current generation ultra low NOx burners
NGB = next generation ultra low NOx burners
SCR = selective catalytic reduction
Other = other control technology
SD = permanent shutdown
(2) CEM = continuous emission monitor
ST = stack test
EF = AP-42 emission factor
(3) Must be at least 33.3% of total capacity of units rated at >40 mmbtu/hr (see paragraph 15.D.i)
(4) Emissions estimation based on actual firing rates from 1999.