

APPENDIX B

REASONABLY AVAILABLE CONTROL TECHNOLOGY ANALYSIS

REASONABLY AVAILABLE CONTROL TECHNOLOGY (RACT) ANALYSIS

Introduction

The Houston-Galveston-Brazoria (HGB) eight-county area is currently classified as a moderate nonattainment area for the United States Environmental Protection Agency (EPA) eight-hour ozone National Ambient Air Quality Standards (NAAQS). Under the eight-hour ozone standard, the HGB area is required to meet the mandates of the Federal Clean Air Act (FCAA) under §§172(c)(1), 182(b)(2) and 182(f). According to EPA's Final Rule to Implement the Eight-Hour Ozone NAAQS (40 Code of Federal Regulations §51.912, November 29, 2005), states containing areas classified as moderate nonattainment or higher must submit as a revision to the state implementation plan a demonstration that their current rules fulfill the eight-hour RACT requirements for all Control Technique Guidelines (CTG) categories and all non-CTG major sources of nitrogen oxides (NO_x) and volatile organic compounds (VOC).

RACT is defined as the lowest emissions limitation that a particular source is capable of meeting by the application of control technology that is reasonably available considering technological and economic feasibility (44 Federal Register (FR) 53762; September 17, 1979). RACT requirements for moderate nonattainment areas are included in the FCAA to assure that significant source categories at major sources of ozone precursor emissions are controlled to a reasonable extent, but not necessarily to Best Available Control Technology (BACT) levels expected of new sources or to maximum achievable control technology (MACT) levels required for major sources of hazardous air pollutants.

RACT Demonstration

The TCEQ demonstrates that the RACT requirements are being fulfilled in the HGB eight-hour ozone nonattainment area by (1) identifying all CTG source categories of VOC and NO_x emissions and submitting negative declarations for categories where there are no major emission sources within the HGB area; (2) identifying all non-CTG major sources of VOC and NO_x emissions; (3) identifying the state regulation that implements or exceeds RACT for each applicable CTG source category or non-CTG major emission source; and (4) describing the basis for concluding that these regulations fulfill RACT.

Identification of CTG and Non-CTG Emission Sources

The EPA has issued CTG documents defining RACT for existing facilities that emit large amounts of air pollutants and Alternative Control Technology (ACT) documents that describe available control technologies but do not define presumptive RACT levels. The TCEQ reviewed EPA CTG and ACT documents to identify all source categories of NO_x and VOC emissions that require RACT. RACT determinations are not required if there are no facilities in the HGB eight-hour ozone nonattainment area that are subject to a CTG or ACT document. A negative declaration is provided for source categories described within the EPA guidance documents that do not exist in the HGB area.

To identify all non-CTG major source categories, the TCEQ reviewed its emission inventory database for all major sources of NO_x or VOC emissions not covered by a CTG. Under the EPA's eight-hour ozone regulations for moderate ozone nonattainment areas, the threshold for major stationary sources is 100 tons per year (tpy) of either VOC or NO_x emissions. Since the emission inventory database reports actual emissions rather than potential to emit, the TCEQ looked at sources that reported as few as 50 tpy or more of actual emissions to identify all non-CTG major source categories of NO_x and VOC emissions.

Determining if State Regulations Fulfill RACT Requirements

The TCEQ examined the rules in Title 30 of the Texas Administrative Code (TAC) Chapters 115 and 117 to verify that the current state rules satisfy the corresponding RACT requirements for all applicable CTG source categories and non-CTG major emission sources. To determine if the control technologies associated with the existing state emission specifications fulfill RACT

requirements for the relevant unit types, the TCEQ compared the existing state regulations to the controls contained in the CTG and ACT guidance documents. State regulations that implement the controls suggested in CTG and ACT documents or that implement equivalent emission control strategies were determined to fulfill RACT requirements.

The TCEQ also reviewed new technologies that are now considered RACT by the EPA and current control technologies and methodologies implemented as RACT in other moderate nonattainment areas. Current technologies and methodologies were examined to identify non-CTG emission source categories that are regulated by other moderate nonattainment areas, to ensure there are no new economically or technologically feasible controls that could be implemented in the HGB area, and to verify that the state rules fulfill RACT requirements. The TCEQ also evaluated control technologies suggested during the public comment period for recent rule projects. State rules that were consistent with or more stringent than the current control technologies and methodologies implemented in other moderate nonattainment areas were also determined to fulfill RACT requirements.

The EPA must evaluate SIP-related rules prior to approval to determine if those rules fulfill all applicable EPA guidelines and policies and therefore, any EPA SIP-approved rules were determined to meet RACT requirements at the time of federal approval. Federally approved state rules, especially those rules that were approved many years ago, were evaluated to determine if the existing rules still fulfill RACT requirements. Federally approved state rules and rule approval dates can be found in 40 CFR §52.2270(c) *EPA Approved Regulations in the Texas SIP*.

BACT is an emission limitation based on the maximum degree of emission reduction (considering energy, environmental, and economic impacts) achievable through application of production processes and available methods, systems, and techniques. BACT does not permit emissions in excess of those allowed under any applicable FCAA provisions. MACT is the emission standard for sources of air pollution requiring the maximum reduction of hazardous emissions, taking cost and feasibility into account. Under the FCAA Amendments of 1990, the MACT must not be less than the average emission level achieved by controls on the best performing 12 percent of existing sources, by category of industrial and utility sources. Therefore, emission sources subject to the more stringent BACT or MACT requirements were determined to also fulfill RACT requirements.

Conclusion

Table B-1: *State Rules Addressing RACT Requirements in CTG and ACT Reference Documents* provides the emission source categories, the CTG and ACT reference documents, and the state rules addressing the RACT requirements for sources in the CTG and ACT documents. Table B-1 also includes non-CTG NO_x emission source categories, identified during the current technology and methodology evaluation, for which other nonattainment areas have adopted RACT regulations. A negative declaration is provided in the table for emission source categories that are described within the EPA guidance documents which, based on information available to the TCEQ, either do not exist in the HGB eight-hour area or exist but are not considered major sources and are therefore not required to demonstrate RACT compliance. All CTG source categories and non-CTG major emission sources in the HGB eight-hour ozone nonattainment area are controlled by source specific state rules that fulfill RACT requirements or are controlled by standards that meet or exceed what would otherwise be considered RACT.

Table B-2: *State Rules Addressing RACT Requirements for Major Emission Sources in the HGB Eight-Hour Ozone Nonattainment Area* lists the major stationary emission sources in the HGB area with actual emissions, as reported in the TCEQ emissions inventory, equal to or greater than 50 tpy. Table B-2 provides the emission source account number, company name, standard industrial classification (SIC) code, a brief description of the source, and the reported annual emissions (in tpy). Table B-2 also includes either the state rules satisfying the RACT requirements, the permit requirements that limit emissions, or the reasoned justification for why

controlling the emissions is not considered RACT. Most major stationary emission sources in the HGB eight-hour ozone nonattainment area are controlled by source specific state rules that fulfill RACT requirements or are controlled by standards that meet or exceed what would otherwise be considered RACT. In some instances however the TCEQ has determined that controlling emissions from some sources is not economically feasible and thus is not considered RACT for the state.

Basis for Concluding State Regulations Fulfill RACT Requirements

In the approval notice for the revised HGB one-hour attainment demonstration (71 FR 52670) the EPA noted that the HGB VOC rules in 30 TAC Chapter 115 and NO_x rules in 30 TAC Chapter 117 were previously determined to meet the FCAA RACT requirements and that the attainment demonstration revisions do not interfere with the implementation of RACT. No comments were received during the public comment period for this current SIP revision suggesting new control technologies that should be evaluated as RACT. Comments suggesting portions of the rules that could be made more stringent are addressed in the response to comments for rule project number 2006-038-115-EN adopted concurrently with this revision. As noted in these responses, the suggested changes were determined to not be economically feasible.

Under the current state rules, the HGB area is subject to some of the most stringent VOC and NO_x emission control requirements in the country and for many source categories the existing rules are more stringent than levels that are generally recognized as RACT. The TCEQ has compared the existing state rules in 30 TAC Chapters 115 and 117 to the current RACT standards and determined that these rules fulfill the RACT requirements for the eight-hour ozone NAAQS. The emission source categories in the HGB eight-hour ozone nonattainment area have been reviewed and evaluated to determine appropriate emission specifications, control requirements, and associated control technologies for those source categories. All CTG source categories and non-CTG major emission sources in the HGB eight-hour ozone nonattainment area, for which RACT is technologically and economically feasible, are controlled by source specific state rules that fulfill RACT requirements or are controlled by standards that meet or exceed what would otherwise be considered RACT.

Table B-1: State Rules Addressing RACT Requirements in CTG and ACT Reference Documents

Emission Source Category	CTG or ACT Reference Document	State Regulations Fulfilling RACT Requirements
VOC Emissions		
Aerospace	Guideline Series: Control of Volatile Organic Compound Emissions from Coating Operations at Aerospace Manufacturing and Rework Operations (EPA-453/R-97-004, EPA-68/D1-00115, EPA-453/D-96-016, December 1997) (see 59 FR 29216, June 6, 1994)	§115.420 – §115.429
Agricultural Pesticides	Control of Volatile Organic Compound Emissions from the Application of Agricultural Pesticides (EPA-450/R-92-011, March 1993)	The TCEQ does not regulate the use of agricultural pesticides and this ACT document does not give presumptive controls therefore, no RACT determination is required for this source category.
Architectural and Industrial Maintenance Coatings	Reduction of Volatile Organic Compound Emissions from Application of Traffic Markings (EPA-450/3-88-007, August 1988) (Note – the Architectural and Industrial Maintenance coatings national rule issued in 1998 includes limits for traffic coatings and superseded the ACT)	Emissions from this source category are regulated by the AIM National Rule.
Automobile Coating	The Reduction of Volatile Organic Compound Emissions from Automobile Refinishing (EPA-450/3-88-009, October 1988, NTIS No PB-89-148-282)	§115.420 – §115.429
Automobile Refinishing	Alternative Control Techniques Document: Automobile Body Refinishing (EPA-453/R-94-031, April 1994) (Note: a national rule for auto-body refinishing was issued in 1998 after the ACT)	§115.420 – §115.429
Batch Processes	Alternative Control Techniques Document: Control of Volatile Organic Compound Emissions from Batch Processes (EPA-453/R-93-017 or EPA 453/R-93-020, February 1994)	§115.160 – §115.169
Bulk Gasoline Plants	Control of Volatile Organic Emissions from Bulk Gasoline Plants (EPA-450/2-77-035, December 1977)	§115.211 – §115.219
Cleaning Solvents	Alternative Control Techniques Document: Industrial Cleaning Solvents (EPA-453/R-94-015, February 1994)	§115.412 – §115.419 §115.420 – §115.429

Emission Source Category	CTG or ACT Reference Document	State Regulations Fulfilling RACT Requirements
Commercial Bakeries	Alternative Control Techniques Document: Bakery Ovens (EPA-453/R-92-017, December 1992)	§115.120 – §115.129
Cutback Asphalt	Control of Volatile Organic Compounds from Use of Cutback Asphalt (EPA-450/2-77-037, December 1977)	§115.510 – §115.519
Ethylene Oxide Sterilization/ Fumigation Operations	Alternative Control Technology Document: Ethylene Oxide Sterilization/Fumigation Operations (EPA-450/3-89-007, March 1989)	Emissions from this source category are regulated by MACT per §113.200.
Fugitive Emissions	Fugitive Emission Sources of Organic Compounds – Additional Information on Emissions, Emission Reductions, and Costs (EPA-450/3-82-010, April 1982)	§115.352 – §115.359
Gasoline Service Stations	Design Criteria for Stage I Vapor Control Systems - Gasoline Service Stations (November 1975)	§115.221 – §115.229
Graphic Arts	Control of Volatile Organic Emissions from Existing Stationary Sources, Volume VIII: Graphic Arts - Rotogravure and Flexography (EPA-450/2-78-033, December 1978)	§115.430 – §115.439
Graphic Arts	Control of Volatile Organic Compound Emissions from Offset Lithographic Printing (September 1993)	§115.440 – §115.449
Graphic Arts	Alternative Control Technology Document: Offset Lithographic Printing (EPA-453/R-94-054, June 1994)	§115.440 – §115.449
Industrial Wastewater	Control Techniques for Industrial Wastewater (EPA-453/D-93-056, September 1992) (ACT: April 1994, consists of cover memo with option tables and CTG)	§115.140 – §115.149
Ink and Paint Manufacturing	Alternative Control Technology Document: Control of Volatile Organic Compounds from Ink and Paint Manufacturing (EPA-453/3-92-013)	§115.120 – §115.129
Leather Tanning and Finishing Operations	Alternative Control Technology Document: Leather Tanning and Finishing Operations (EPA-453/R-93-025)	No existing major sources in HGB eight-hour ozone area (SIC 3111).
Metal Furniture	Control of Volatile Organic Emissions from Existing Stationary Sources, Volume III: Surface Coating of Metal Furniture (EPA-450/2-77-032, December 1977)	§115.420 – §115.429
Natural Gas/Gasoline Processing	Control of Volatile Organic Compound Equipment Leaks from Natural Gas/Gasoline Processing Plants (EPA-450/2-83-007, December 1983)	§115.352 – §115.359

Emission Source Category	CTG or ACT Reference Document	State Regulations Fulfilling RACT Requirements
Petroleum Dry Cleaners	Control of Volatile Organic Compound Emissions from Large Petroleum Dry Cleaners (EPA-450/3-82-009, September 1982)	Contingency Measures: §115.552 – §115.553 §115.555 – §115.557 §115.559
Petroleum Liquid Storage	Control of Volatile Organic Emissions from Storage of Petroleum Liquids in Fixed Roof Tanks (EPA-450/2-77-036, December 1977)	§§115.112 – 119
Petroleum Liquid Storage	Control of Volatile Organic Emissions from Petroleum Liquid Storage in External Floating Roof Tanks (EPA-450/2-78-047, December 1978)	§115.112 – §115.119
Petroleum Liquid Storage	Alternative Control Techniques Document: Volatile Organic Liquid Storage in Floating and Fixed Roof Tanks (EPA-453/R-94-001, January 1994)	§115.112 – §115.119
Plywood Veneer Dryers	Control Techniques for Organic Emissions from Plywood Veneer Dryers (EPA-450/3-83-012, May 1983)	§115.120 – §115.129
Process Vents	Alternative Control Technology Document: Organic Waste Process Vents (EPA-450/3-91-007, December 1990)	§115.120 – §115.129
Refineries	Control of Refinery Vacuum Producing Systems, Wastewater Separators, and Process Unit Turnarounds (EPA-450/2-77-025, October 1977)	§115.311 – §115.319 §115.131 – §115.139
Refineries	Control of Volatile Organic Compound Leaks from Petroleum Refinery Equipment (EPA-450/2-78-036, June 1978)	§115.352 – §115.359
Rubber Tires	Control of Volatile Organic Emissions from Manufacture of Pneumatic Rubber Tires (EPA-450/2-78-030, December 1978)	No existing major sources in HGB eight-hour ozone area (SIC 3011).
Shipbuilding and Ship Repair	Control Technique Guidelines for Shipbuilding and Ship Repair Operations (EPA-453/R-94-032, April 1994)	§115.420 – §115.429
Shipbuilding and Ship Repair	Control Technique Guidelines for Shipbuilding and Ship Repair Surface Coating Operations (61 FR 44050, August 27, 1996)	§115.420 – §115.429
Solvent Cleaning	Control of Volatile Organic Emissions from Solvent Metal Cleaning (EPA-450/2-77-022, November 1977)	§115.412 – §115.419 §115.420 – §115.429
Solvent Cleaning	Alternative Control Technology Document: Halogenated Solvent Cleaners (EPA-450/3-89-030, August 1989)	§115.412 – §115.419
Surface Coating	Control of Volatile Organic Emissions from Existing Stationary Sources, Volume I: Control Methods for Surface Coating Operations (EPA-450/2-76-028, November 1976)	§115.420 – §115.429

Emission Source Category	CTG or ACT Reference Document	State Regulations Fulfilling RACT Requirements
Surface Coating	Control of Volatile Organic Emissions from Existing Stationary Sources, Volume II: Surface Coating of Cans, Coils, Paper, Fabrics, Automobiles, and Light-Duty Trucks (EPA-450/2-77-008, May 1977)	§115.420 – §115.429
Surface Coating	Control of Volatile Organic Emissions from Existing Stationary Sources, Volume IV: Surface Coating for Insulation of Magnet Wire (EPA-450/2-77-033, December 1977)	§115.420 – §115.429
Surface Coating	Control of Volatile Organic Emissions from Existing Stationary Sources, Volume V: Surface Coating of Large Appliances (EPA-450/2-77-034, December 1977)	§115.420 – §115.429
Surface Coating	Control of Volatile Organic Emissions from Existing Stationary Sources, Volume VI: Surface Coating of Miscellaneous Metal Parts and Products (EPA-450/2-78-015, June 1978)	§115.420 – §115.429
Surface Coating	Control of Volatile Organic Emissions from Existing Stationary Sources, Volume VII: Factory Surface Coating of Flat Wood Paneling (EPA-450/2-78-032, June 1978)	§115.420 – §115.429
Surface Coating	Alternative Control Techniques Document: Surface Coating of Automotive/Transportation and Business Machine Plastic Parts (EPA-453/R-94-017, February 1994)	§115.420 – §115.429
Synthetic Organic Chemical Manufacturing Industry	Control of Volatile Organic Emissions from Manufacture of Synthesized Pharmaceutical Products (EPA-450/2-78-029, December 1978)	§115.531 – §115.539
Synthetic Organic Chemical Manufacturing Industry	Control of Volatile Organic Compound Emissions from Manufacture of High-Density Polyethylene, Polypropylene, and Polystyrene Resins (EPA-450/3-83-008, November 1983)	§115.120 – §115.129
Synthetic Organic Chemical Manufacturing Industry	Control of Volatile Organic Compound Fugitive Emissions from Synthetic Organic Chemical Polymer and Resin Manufacturing Equipment (EPA-450/3-83-006, March 1984)	§115.352 – §115.359
Synthetic Organic Chemical Manufacturing Industry	Control of Volatile Organic Compound Emissions from Air Oxidation Processes in Synthetic Organic Chemical Manufacturing Industry (EPA-450/3-84-015, December 1984)	§115.120 – §115.129

Emission Source Category	CTG or ACT Reference Document	State Regulations Fulfilling RACT Requirements
Synthetic Organic Chemical Manufacturing Industry	Polystyrene Foam Manufacturing (EPA-450/3-90-020, 1990)	§115.120 – §115.129
Synthetic Organic Chemical Manufacturing Industry	Control of Volatile Organic Compound Emissions from Reactor Processes and Distillation Operations in Synthetic Organic Chemical Manufacturing Industry (EPA-450/4-91-031, August 1993)	§115.120 – §115.129
Tank Trucks	Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals (EPA-450/2-77-026, December 1977)	§115.211 – §115.219 §115.221 – §115.229
Tank Trucks	Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems (EPA-450/2-78-051, December 1978)	§115.211 – §115.219 §115.234 – §115.239
Vegetable Oil Manufacturing	Control of Volatile Organic Emissions from Manufacture of Vegetable Oils (EPA-450/2-78-035, June 1978)	No existing major sources in HGB eight-hour ozone area (SIC 2046 and 2076).
Wood Furniture Manufacturing	Guideline Series: Control of Volatile Organic Compound Emissions from Wood Furniture Manufacturing Operations (EPA-453/D-95/002)	§115.420 – §115.429
Wood Furniture Manufacturing	Guidelines Series: Control of Volatile Organic Compound Emissions from Wood Furniture Manufacturing Operations (EPA-453/R-96-007, April 1996) (see also 61 FR 25223, and, 61 FR 50823, September 27, 1996)	§115.420 – §115.429
NO_x Emissions		
Brick and Ceramic Manufacturing	Non-CTG Major NO _x Source	No existing major sources in HGB eight-hour ozone area.
Cement Manufacturing	NO _x Emissions from Cement Manufacturing (EPA-453/R-94-004, March 1994) (Updated September 2000)	§117.3110
Coke, Wood, Rice, and Other Biomass-Fired Boilers	Non-CTG Major NO _x Source	§117.305(a), (b), & (g)
Fiberglass Manufacturing	Non-CTG Major NO _x Source	No existing major sources in HGB eight-hour ozone area.
Fuel Switching	Fuel Switching to Meet NO _x RACT for NO _x , (EPA Memorandum, July 30, 1993)	§§117.300 – 356 §§117.1200 – 1256
Glass Manufacturing	NO _x Emissions from Glass Manufacturing (EPA-453/R-94-037, June 1994)	No existing major sources in HGB eight-hour ozone area.
Hot Mix Asphalt Plants	Non-CTG Major NO _x Source	No existing major sources in HGB eight-hour ozone area.

Emission Source Category	CTG or ACT Reference Document	State Regulations Fulfilling RACT Requirements
Incinerators	Non-CTG Major NO _x Source	§117.310
Industrial, Commercial, and Institutional Boilers	NO _x Emissions from Industrial, Commercial & Institutional Boilers (EPA-453/R-94-022, March 1994)	§117.305(a), (b), & (g)
Iron and Steel	NO _x Emissions from Iron and Steel (EPA-453/R-94-065, September 1994)	§117.310
Lead Smelting	Non-CTG Major NO _x Source	No existing major sources in HGB eight-hour ozone area.
Lightweight Aggregate Kilns	Non-CTG Major NO _x Source	§117.310
Lime Manufacturing	Non-CTG Major NO _x Source	§117.310
Magnesium Chloride Fluidized Bed Dryers	Non-CTG Major NO _x Source	§117.310
Natural Gas-Fired Dryers, Heaters, and Ovens at Major Sources	Non-CTG Major NO _x Source	No existing major sources in HGB eight-hour ozone area.
Nitric and Adipic Acid Manufacturing	NO _x Emissions from Nitric and Adipic Acid Manufacturing Plants (EPA-453/3-91-026, December 1991)	§117.4000 – §117.4056 §117.4100 – §117.4150
Oilfield Drilling Operations	Non-CTG Major NO _x Source	§117.310
Other Minerals Processing Kilns	Non-CTG Major NO _x Source	No existing major sources in HGB eight-hour ozone area.
Petroleum Refining Operations	Non-CTG Major NO _x Source	§117.310
Process Heaters	NO _x Emissions from Process Heaters (EPA-453/R-93-034, revised September 1993)	§117.305(a), (b), (e), & (g)
Pulping Liquor Recovery Furnaces	Non-CTG Major NO _x Source	§117.310
Pyrolysis Reactors	Non-CTG Major NO _x Source	§117.310
Stationary Internal Combustion Engines	NO _x Emissions from Stationary Internal Combustion Engines (EPA-453/R-93-032, July 1993) (Updated September 2000)	§117.305(a), (d), & (g)
Stationary Turbines	NO _x Emissions from Stationary Combustion Turbines (EPA-453/R-93-007, January 1993)	§117.305(a), (c), & (g)
Utility Auxiliary Steam Boilers	Non-CTG Major NO _x Source	§117.1205(a) - (e), (k), & (l)
Utility Boilers	NO _x Emissions from Utility Boilers (EPA-453/R-94-023, March 1994)	§117.1205(a) - (e), (k), & (l)
Utility Stationary Gas Turbines	Non-CTG Major NO _x Source	§117.1205(f), (g), (i), (k), & (l)

Table B-2: State Rules Addressing RACT Requirements for Major Emission Sources in the HGB Eight-Hour Ozone Nonattainment Area

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
Major Sources of NO_x Emissions (from the 2000 TCEQ Emissions Inventory)					
FG0020V	Texas Genco II LP	4911	Electric Services	22760.78	§117.1200 – §117.1256
BL0082R	Dow Chemical Company	2869	Industrial Organic Chemicals, NEC	13733.82	§117.300 – §117.356
GB0037T	Texas Genco II LP	4911	Electric Services	9060.34	§117.1200 – §117.1256
GB0004L	BP Products North America Inc	2911	Petroleum Refining	7150.80	§117.300 – §117.356
HG0659W	Shell Oil Company	2911	Petroleum Refining	7068.40	§117.300 – §117.356
HG0232Q	ExxonMobil Corporation	2911	Petroleum Refining	6295.38	§117.300 – §117.356
HG0033B	Equistar Chemicals LP	2869	Industrial Organic Chemicals, NEC	5101.71	§117.300 – §117.356
CI0012D	Texas Genco II LP	4911	Electric Services	4333.26	§117.1200 – §117.1256
HG0071Q	Air Liquide America Corporation	2813	Industrial Gases	4034.76	§117.300 – §117.356
HG1495V	AES Deepwater Inc	4911	Electric Services	3400.41	§117.1200 – §117.1256
HG0048L	Lyondell Citgo Refining LP	2911	Petroleum Refining	2922.41	§117.300 – §117.356
MQ0009F	Entergy Gulf States Inc	4911	Electric Services	2724.00	§117.1200 – §117.1256
HG0228H	Exxon Chemical Company	2869	Industrial Organic Chemicals, NEC	2425.82	§117.300 – §117.356
HG0713S	Enron Methanol Company	2869	Industrial Organic Chemicals, NEC	2402.63	§117.300 – §117.356
HG1174V	Cogen Lyondell Inc	4931	Electric and Other Services Combined	2039.89	§117.1200 – §117.1256
BL0002S	Innovene USA LLC	2869	Industrial Organic Chemicals, NEC	2013.80	§117.300 – §117.356

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HG0562P	Texas Petrochemicals LP	2869	Industrial Organic Chemicals, NEC	1935.96	§117.300 – §117.356
HG0357S	Texas Genco II LP	4911	Electric Services	1828.26	§117.1200 – §117.1256
GB0153Q	Texas City Cogeneration LP	4911	Electric Services	1768.92	§117.1200 – §117.1256
GB0073P	Valero Refining Company Texas	2911	Petroleum Refining	1766.82	§117.300 – §117.356
HG0234M	ExxonMobil Corporation	1321	Natural Gas Liquids	1707.59	§117.300 – §117.356
HG0358Q	Texas Genco II LP	4911	Electric Services	1654.43	§117.1200 – §117.1256
BL0042G	ConocoPhillips Company	2911	Petroleum Refining	1614.91	§117.300 – §117.356
WB0003U	ExxonMobil Corporation	1321	Natural Gas Liquids	1590.64	§117.300 – §117.356
BL0758C	Chevron Phillips Chemical Company LP	2869	Industrial Organic Chemicals, NEC	1333.71	§117.300 – §117.356
HG1575W	Lyondell Chemical Company	2869	Industrial Organic Chemicals, NEC	1333.66	§117.300 – §117.356
BL0622F	Sweeny Cogeneration LP	4931	Electric and Other Services Combined	1298.34	§117.1200 – §117.1256
HG0310V	Chevron Phillips Chemical Company	2869	Industrial Organic Chemicals, NEC	1294.69	§117.300 – §117.356
HG1169O	Calpine Corporation	4911	Electric Services	1243.50	§117.1200 – §117.1256
CI0008R	Enterprise Products Operating LP	2869	Industrial Organic Chemicals, NEC	1243.34	§117.300 – §117.356
HG0130C	Valero Refining Texas LP	2911	Petroleum Refining	1230.14	§117.300 – §117.356
HG0126Q	Celanese Ltd	2869	Industrial Organic Chemicals, NEC	1120.39	§117.300 – §117.356
GB0076J	Union Carbide Corporation	2869	Industrial Organic Chemicals, NEC	1114.77	§117.300 – §117.356

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
GB0060B	Sterling Chemicals LP	2869	Industrial Organic Chemicals, NEC	1056.70	§117.300 – §117.356
FG0010B	Jetta Operating Company	1311	Crude Petroleum and Natural Gas	1001.19	§117.300 – §117.356
GB0055R	Marathon Petroleum Company LLC	2911	Petroleum Refining	938.33	§117.300 – §117.356
GB0001R	BP Amoco Chemical Company	2869	Industrial Organic Chemicals, NEC	917.51	§117.300 – §117.356
MQ0007J	ExxonMobil Corporation	1311	Crude Petroleum and Natural Gas	897.28	§117.300 – §117.356
HG0175D	Pasadena Refining System	2911	Petroleum Refining	784.27	§117.300 – §117.356
HG0229F	ExxonMobil Chemical Company	2869	Industrial Organic Chemicals, NEC	766.26	§117.300 – §117.356
BL0005M	Hilcorp Energy Company	1321	Natural Gas Liquids	762.95	§117.300 – §117.356
BL0113I	Equistar	2869	Industrial Organic Chemicals, NEC	713.29	§117.300 – §117.356
BL0238K	Tejas Gas Pipeline Company	4922	Natural Gas Transmission	710.48	§117.300 – §117.356
HG0353D	Texas Genco II LP	4911	Electric Services	672.28	§117.1200 – §117.1256
HG0770G	Equistar Chemicals LP	2869	Industrial Organic Chemicals, NEC	670.27	§117.300 – §117.356
BL0021O	BASF Corporation	2869	Industrial Organic Chemicals, NEC	661.36	§117.300 – §117.356
BL0378Q	Oyster Creek Limited Power Unit 8	2869	Industrial Organic Chemicals, NEC	658.18	§117.300 – §117.356
HG0632T	Rohm and Haas Texas	2869	Industrial Organic Chemicals, NEC	648.46	§117.300 – §117.356

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HG0674D	Abitibi-Consolidated Corporation	2621	Paper Mills	604.40	§117.300 – §117.356
CI0016S	Bayer Corporation	2869	Industrial Organic Chemicals, NEC	534.58	§117.300 – §117.356
HG3307M	Nova Chemicals USA Inc	2865	Cyclic Crudes and Intermediates, and Organic Dyes	500.52	§117.300 – §117.356
HG0412M	Degussa Engineered Carbons LP	2895	Carbon Black	493.62	§117.300 – §117.356
MQ0064U	Natural Gas Pipeline Company of America	1321	Natural Gas Liquids	479.61	§117.300 – §117.356
HG0289K	Goodyear Tire and Rubber Company	2822	Synthetic Rubber	467.98	§117.300 – §117.356
HG0194W	Oxy Vinyls LP	2812	Alkalies and Chlorine	453.91	§§117.300 – 356
HG0355W	Texas Genco II LP	4911	Electric Services	428.55	§117.1200 – §117.1256
HG0035U	Mobil Chemical Company	2869	Industrial Organic Chemicals, NEC	406.52	§117.300 – §117.356
CI0022A	Targa Midstream Services Ltd	1321	Natural Gas Liquids	389.26	§117.300 – §117.356
FG0040P	Patterson Petroleum LP	1321	Natural Gas Liquids	382.32	§117.300 – §117.356
BL0038U	Soultia Inc	2869	Industrial Organic Chemicals, NEC	380.92	§117.300 – §117.356
HG4955K	Texas Genco II LP	4911	Electric Services	358.97	§117.1200 – §117.1256
LH0028U	Natural Gas Pipeline Company of America	4922	Natural Gas Transmission	296.38	§117.300 – §117.356
HG9954A	Pasadena Cogeneration LP	4911	Electric Services	281.85	§117.1200 – §117.1256
HG1394F	Trunkline Gas Company	4922	Natural Gas Transmission	249.56	§117.300 – §117.356

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HG0276T	Georgia Gulf Chemicals and Vinyls LLC	2865	Cyclic Crudes and Intermediates, and Organic Dyes	243.39	§117.300 – §117.356
HG0230U	Tandem Energy Corporation	1311	Crude Petroleum and Natural Gas	234.34	§117.300 – §117.356
HG0769O	The Dow Chemical Company	2869	Industrial Organic Chemicals, NEC	226.22	§117.300 – §117.356
CI0170H	Jindal United Steel Corporation	3312	Blast Furnaces and Steel Mills	219.70	§117.300 – §117.356
HG0714Q	Enterprise Products Operating LP	2869	Industrial Organic Chemicals, NEC C	215.19	§117.300 – §117.356
HG0633R	Clean Harbors Deer Park LP	4953	Refuse Systems	206.89	§117.300 – §117.356
FG0021T	Imperial Sugar Company	2062	Cane Sugar Refining	198.04	§117.300 – §117.356
HG0356U	Texas Genco II LP	4911	Electric Services	182.70	§117.1200 – §117.1256
HG0225N	Albemarle Corporation	2869	Industrial Organic Chemicals, NEC	170.22	§117.300 – §117.356
HX2334A	Linde Gas LLC	2813	Industrial Gases	169.99	§117.300 – §117.356
GB0325L	Praxair Inc	2813	Industrial Gases	168.71	§117.300 – §117.356
LH0026B	Georgia Pacific Corporation	2436	Softwood Veneer and Plywood	167.12	§117.300 – §117.356
BL0043E	ConocoPhillips Company	1311	Crude Petroleum and Natural Gas	164.70	§117.300 – §117.356
CI0042R	Phillips Petroleum Company	1321	Natural Gas Liquids	162.29	§§117.300 – 356
FG0036G	TXI Operations LP	3295	Minerals, Ground or Treated	153.88	§117.300 – §117.356
HX0055V	Amoco Chemical Company	2869	Industrial Organic Chemicals, NEC	152.17	§117.300 – §117.356
HG0192D	Oxy Vinyls LP	2812	Alkalies and Chlorine	152.10	§117.300 – §117.356

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
WB0058S	Kinder Morgan Texas Pipeline LP	4922	Natural Gas Transmission	147.71	§117.300 – §117.356
MQ0012Q	Huntsman Petrochemical Corporation	2869	Industrial Organic Chemicals, NEC	140.66	§117.300 – §117.356
CI0177Q	Masters Resources LLC	1311	Crude Petroleum and Natural Gas	139.48	§117.300 – §117.356
CI0005A	Koch Hydrocarbon Southwest LLC	1321	Natural Gas Liquids	136.94	§117.300 – §117.356
CI0056G	Texas Eastern Transmission Corporation	4922	Natural Gas Transmission	133.54	§117.300 – §117.356
BL0051F	Shintech Incorporated	2821	Plastics Materials and Synthetic Resins	127.28	§117.300 – §117.356
MQ0002T	CrossTex Acquisition Management LP	1321	Natural Gas Liquids	126.66	§117.300 – §117.356
HG1249P	BASF Corporation	2869	Industrial Organic Chemicals, NEC	124.76	§117.300 – §117.356
HG0665E	BP Solvay Polyethylene America	2821	Plastics Materials and Synthetic Resins	119.50	§117.300 – §117.356
HG3604D	Global Octanes Corporation	2869	Industrial Organic Chemicals, NEC	117.08	§117.300 – §117.356
HG0473P	Kraft Foods Inc	2095	Roasted Coffee	112.79	§117.300 – §117.356
HG0218K	EI Dupont De Nemours and Company Inc	2869	Industrial Organic Chemicals, NEC	110.22	§117.300 – §117.356
HG1149U	Rice University	5541	Gasoline Service Stations	101.01	§117.300 – §117.356
HG0037Q	Akzo Nobel Polymer Chemicals	2819	Industrial Inorganic Chemicals	99.08	§117.300 – §117.356
HG0486G	Merisol USA LLC	2869	Industrial Organic Chemicals, NEC	95.98	§117.300 – §117.356

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
MQ0021P	Acacia Natural Gas Corporation	1321	Natural Gas Liquids	88.93	§117.300 – §117.356
CI0104U	Kerr-McGee Oil and Gas Onshore LLC	1311	Crude Petroleum and Natural Gas	87.85	§117.300 – §117.356
HG0988A	Thermal Energy Corporation	4961	Steam and Air Conditioning Supply	87.30	§117.300 – §117.356
GB0547O	Devon Energy Production Company LP	1311	Crude Petroleum and Natural Gas	81.35	§117.300 – §117.356
FG0009J	Atlas Oil and Gas	1382	Oil and Gas Field Exploration Services	81.24	§117.300 – §117.356
HG1939G	Oxy Vinyls LP	2869	Industrial Organic Chemicals, NEC	81.03	§117.300 – §117.356
GB0028U	ISP Technologies Inc	2869	Industrial Organic Chemicals, NEC	80.94	§117.300 – §117.356
BL0048R	Schenectady International Inc	2869	Industrial Organic Chemicals, NEC	80.47	§117.300 – §117.356
HG0459J	Lubrizol Corporation	2869	Industrial Organic Chemicals, NEC	78.85	§117.300 – §117.356
MQ0026F	El Paso Corporation	4922	Natural Gas Transmission	78.81	§117.300 – §117.356
HG0537O	Lyondell Chemical Worldwide Inc	2869	Industrial Organic Chemicals, NEC	78.81	§117.300 – §117.356
HG0036S	Atofina Petrochemicals Inc	2821	Plastics Materials and Synthetic Resins	77.31	§117.300 – §117.356
HG0114A	Wyman-Gordon Forgings Inc	3462	Iron and Steel Forgings	73.45	§117.300 – §117.356
HG0030H	Anheuser-Busch Inc	2082	Malt Beverages	72.79	§117.300 – §117.356
CI0103W	Kerr-McGee Oil and Gas Onshore LLC	1311	Crude Petroleum and Natural Gas	72.11	§117.300 – §117.356
HG1478V	GE AEP APS	3511	Turbines and Turbine Generator	70.42	§117.300 – §117.356

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
WB0075S	Duke Energy Field Services LP	4922	Natural Gas Transmission	68.57	§117.300 – §117.356
GB0081Q	University of Texas Medical Branch	8221	Colleges and Universities, NEC	68.02	§117.300 – §117.356
HG0157F	Enterprise Products Operating LP	4613	Refined Petroleum Pipelines	66.73	§117.300 – §117.356
HG1391L	Kinder Morgan Tejas Pipeline LP	1311	Crude Petroleum and Natural Gas	66.41	§117.300 – §117.356
HG0657D	Shell Oil Company	2869	Industrial Organic Chemicals, NEC	64.49	§117.300 – §117.356
HX2332E	Pasadena Paper Company	2621	Paper Mills	62.16	§117.300 – §117.356
CI0122S	Masters Resources LLC	1311	Crude Petroleum and Natural Gas	60.69	§117.300 – §117.356
BL0265H	Enterprise Products Operating LP	1321	Natural Gas Liquids	57.82	§117.300 – §117.356
HG0354B	Texas Genco II LP	4911	Electric Services	54.53	§117.1200 – §117.1256
HG1996R	Equistar Chemicals LP	2869	Industrial Organic Chemicals, NEC	53.91	§117.300 – §117.356
Major Sources of VOC Emissions (from the 2004 TCEQ Emissions Inventory)					
HG0261J	Kinder Morgan Operating LP	4226	Special Warehousing and Storage	4013.65	§115.112 – §115.119 §115.211 – §115.219 §115.541 – §115.549
GB0004L	BP Products North America Inc	2911	Petroleum Refining	3238.52	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.313 – §115.319 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HG0232Q	ExxonMobil Corporation	2911	Petroleum Refining	2337.94	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.313 – §115.319 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0659W	Shell Oil Company	2911	Petroleum Refining	1779.43	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.313 – §115.319 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0048L	Lyondell Citgo Refining LP	2911	Petroleum Refining	1515.03	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.313 – §115.319 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0229F	ExxonMobil Chemical Company	2869	Industrial Organic Chemicals, NEC	1377.79	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0033B	Equistar Chemicals LP	2869	Industrial Organic Chemicals, NEC	1209.38	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
GB0073P	Valero Refining Company Texas	2911	Petroleum Refining	1142.38	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.313 – §115.319 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0566H	Phillips Chemical Company	2821	Plastics Materials and Synthetic Resins	947.56	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
BL0082R	Dow Chemical Company	2869	Industrial Organic Chemicals, NEC	892.27	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
GB0076J	Union Carbide Corporation	2869	Industrial Organic Chemicals, NEC	765.77	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
BL0042G	ConocoPhillips Company	2911	Petroleum Refining	689.86	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.313 – §115.319 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0262H	Kinder Morgan Liquids Terminals LLC	5171	Petroleum Bulk Stations and Terminals	582.65	§115.112 – §115.119 §115.211 – §115.219

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
BL0002S	Ineos USA LLC	2869	Industrial Organic Chemicals, NEC	572.59	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0629I	Vopak Terminal	4226	Special Warehousing and Storage	548.00	§115.112 – §115.119 §115.211 – §115.219 §115.541 – §115.549
HG0562P	Texas Petrochemicals LP	2869	Industrial Organic Chemicals, NEC	524.21	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0175D	Pasadena Refining System	2911	Petroleum Refining	501.84	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.313 – §115.319 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
CI0008R	Enterprise Products Operating LP	2869	Industrial Organic Chemicals, NEC	493.05	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
GB0001R	BP Amoco Chemical Company	2869	Industrial Organic Chemicals, NEC	492.91	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
GB0055R	Marathon Petroleum Company LLC	2911	Petroleum Refining	491.18	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.313 – §115.319 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
GB0006H	Teppco Crude Pipeline LP	4612	Crude Petroleum Pipe Lines	472.64	§115.112 – §115.119 §115.541 – §115.549
BL0758C	Chevron Phillips Chemical Company LP	2869	Industrial Organic Chemicals, NEC	468.74	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0310V	Chevron Phillips Chemical Company	2869	Industrial Organic Chemicals, NEC	462.39	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
BL0571U	Teppco Crude Oil Pipeline LP	4612	Crude Petroleum Pipe Lines	417.37	§115.112 – §115.119 §115.541 – §115.549
HG0403N	Intercontinental Terminals Company	4226	Special Warehousing and Storage	416.60	§115.112 – §115.119 §115.211 – §115.219 §115.541 – §115.549
HG0632T	Rohm and Haas Texas	2869	Industrial Organic Chemicals, NEC	406.76	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HG0770G	Equistar Chemicals LP	2869	Industrial Organic Chemicals, NEC	399.54	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0289K	Goodyear Tire and Rubber Company	2822	Synthetic Rubber	376.30	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0665E	BP Solvay Polyethylene America	2821	Plastics Materials and Synthetic Resins	376.28	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
BL0113I	Equistar	2869	Industrial Organic Chemicals, NEC	372.73	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0228H	ExxonMobil Chemical Company	2869	Industrial Organic Chemicals, NEC	372.14	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
CI0022A	Targa Midstream Services Ltd	1321	Natural Gas Liquids	361.37	§115.120 – §115.129 §115.352 – §115.359

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HG1575W	Lyondell Chemical Company	2869	Industrial Organic Chemicals, NEC	325.68	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
CI0021C	Targa Midstream Services Ltd	5171	Petroleum Bulk Stations and Terminals	290.80	§115.112 – §115.119 §115.211 – §115.219
HG0323M	Basell U.S.A. Inc	2821	Plastics Materials and Synthetic Resins	289.77	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0459J	Lubrizol Corporation	2869	Industrial Organic Chemicals, NEC	278.12	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
BL0268B	Equistar Chemicals LP	2821	Plastics Materials and Synthetic Resins	266.43	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HX2897U	BP Amoco Polymers Inc	2821	Plastics Materials and Synthetic Resins	251.13	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
LHA005E	Westport Oil and Gas Company LP	1311	Crude Petroleum and Natural Gas	249.54	§115.112 – §115.119

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HG0126Q	Celanese Ltd	2869	Industrial Organic Chemicals, NEC	233.24	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
BL0038U	Solutia Inc	2869	Industrial Organic Chemicals, NEC	233.15	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0303S	Gulf Coast Waste Disposal Authority	4952	Sewerage Systems	232.87	§115.140 – §115.149
HG0218K	EI Dupont De Nemours and Company Inc	2869	Industrial Organic Chemicals, NEC	225.30	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG1451S	Oxy Vinyls LP	2821	Plastics Materials and Synthetic Resins	221.21	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0130C	Valero Refining Texas LP	2911	Petroleum Refining	216.31	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.313 – §115.319 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HX1726J	Millennium Petrochemicals Inc	2869	Industrial Organic Chemicals, NEC	214.43	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0036S	Total Petrochemicals USA Inc	2821	Plastics Materials and Synthetic Resins	210.27	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
BL0021O	BASF Corporation	2869	Industrial Organic Chemicals, NEC	204.09	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0017W	Magellan Terminals Holdings LP	4226	Special Warehousing and Storage	201.68	§115.112 – §115.119 §115.211 – §115.219 §115.541 – §115.549
HG0030H	Anheuser-Busch Inc	2082	Malt Beverages	200.59	VOC emissions are controlled per BACT in NSR Permit No. 8904. Additional control for RACT is not economically feasible.
GB0060B	Sterling Chemicals Inc	2869	Industrial Organic Chemicals, NEC	200.05	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
CI0042R	Phillips Petroleum Company	1321	Natural Gas Liquids	198.30	§115.120 – §115.129 §115.352 – §115.359
CI0197K	TE Products Pipeline Company LP	4613	Refined Petroleum Pipe Lines	183.00	§115.112 – §115.119 §115.541 – §115.549

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
CI0009P	Exxon Chemical Company	2821	Plastics Materials and Synthetic Resins	178.47	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
LH0051C	ExxonMobil Oil Corporation	5171	Petroleum Bulk Stations and Terminals	177.87	§115.112 – §115.119 §115.211 – §115.219
CI0011F	ExxonMobil Pipeline Company	4619	Pipelines, NEC	170.18	§115.112 – §115.119 §115.541 – §115.549
LH0026B	Georgia Pacific Corporation	2436	Softwood Veneer and Plywood	169.75	§115.120 – §115.129 §115.420 – §115.429
HG0224P	Vopak Logistics Services USA Inc	4789	Transportation Services, NEC	168.62	§115.120 – §115.129
HX0055V	Amoco Chemical Company	2869	Industrial Organic Chemicals, NEC	162.15	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
BL0005M	Hilcorp Energy Company	1321	Natural Gas Liquids	158.33	§115.120 – §115.129 §115.352 – §115.359
FG0042L	Surface Chemistry LLC	2869	Industrial Organic Chemicals, NEC	150.91	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
FG0020V	NRG Texas LP	4911	Electric Services	143.81	Additional control for RACT is not economically feasible.
HG0724N	Teppco	4789	Transportation Services, NEC	139.33	§115.120 – §115.129

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HG0714Q	Enterprise Products Operating LP	2869	Industrial Organic Chemicals, NEC	136.27	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HX2332E	Texas Property Holdings Inc	2621	Paper Mills	132.85	§115.120 – §115.129
HG0565J	ConocoPhillips Pipeline Company	5171	Petroleum Bulk Stations and Terminals	132.25	§115.112 – §115.119 §115.211 – §115.219
HG0537O	Lyondell Chemical Worldwide Inc	2869	Industrial Organic Chemicals, NEC	131.95	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
CI0002G	Equistar Chemicals LP	4619	Pipelines, NEC	130.54	§115.112 – §115.119 §115.541 – §115.549
HG4662F	Total Petrochemicals USA Inc	2821	Plastics Materials and Synthetic Resins	126.97	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0686T	Southwest Shipyard LP	3731	Ship Building and Repairing	116.06	§115.420 – §115.429 §115.541 – §115.549
HG0035U	Mobil Chemical Company	2869	Industrial Organic Chemicals, NEC	115.48	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
MQ0014M	Containment Solutions Inc	3089	Plastics Products, NEC	112.36	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0276T	Georgia Gulf Chemicals and Vinyls LLC	2865	Cyclic Crudes and Intermediates, and Organic Dyes	109.83	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
CI0018O	Teppco	4613	Refined Petroleum Pipe Lines	108.48	§115.112 – §115.119 §115.541 – §115.549
HG1310O	Eval Company America	2821	Plastics Materials and Synthetic Resins	108.33	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
MQ0112L	Ball Corporation	3411	Metal Cans	106.21	§115.420 – §115.429
HG0531D	Oil Tanking Houston LP	4226	Special Warehousing and Storage	105.71	§115.112 – §115.119 §115.211 – §115.219 §115.541 – §115.549
HX2342B	Reliant Energy Channelview LP	4911	Electric Services	105.23	Additional control for RACT is not economically feasible.
GB0077H	Oil Tanking Texas City LP	4226	Special Warehousing and Storage	104.68	§115.112 – §115.119 §115.211 – §115.219 §115.541 – §115.549
CI0012D	Texas Genco II LP	4911	Electric Services	104.56	Additional control for RACT is not economically feasible.
HG0444W	Precoat Metals a Division of Sequa Company	3479	Metal Coating and Allied Services	102.88	§115.420 – §115.429
CI0028L	Shell Pipeline Company LP	4613	Refined Petroleum Pipe Lines	101.54	§115.112 – §115.119 §115.541 – §115.549

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HG0929Q	Haltermann	2869	Industrial Organic Chemicals, NEC	100.88	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0697O	Rhodia, Inc	2819	Industrial Inorganic Chemicals	100.36	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0467K	Marathon Ashland Pipeline LLC	4613	Refined Petroleum Pipe Lines	98.53	§115.112 – §115.119 §115.541 – §115.549
GB0028U	ISP Technologies Inc	2869	Industrial Organic Chemicals, NEC	97.17	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
CI0069U	West Bay Organics	2869	Industrial Organic Chemicals, NEC	95.27	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG1065E	Kaneka Texas Corporation	2821	Plastics Materials and Synthetic Resins	90.25	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
BL0048R	Schenectady International Inc	2869	Industrial Organic Chemicals, NEC	89.80	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0052U	Engelhard Corporation	2819	Industrial Inorganic Chemicals	88.75	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
BL0044C	Chevron Phillips Chemical Company LP	4613	Refined Petroleum Pipe Lines	88.49	§115.112 – §115.119 §115.541 – §115.549
HG0236I	ExxonMobil Pipeline Company	4613	Refined Petroleum Pipe Lines	87.16	§115.112 – §115.119 §115.541 – §115.549
MQ0117B	Crown Cork and Seal Company Inc	3411	Metal Cans	79.48	§115.420 – §115.429
FG0082W	Crown Cork and Seal Company Inc	3411	Metal Cans	79.29	§115.420 – §115.429
HG3626Q	Nisseki Chemical Texas Inc	2869	Industrial Organic Chemicals, NEC	77.06	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG3758V	Teppco Crude Oil Pipeline LP	4612	Crude Petroleum Pipe Lines	76.10	§115.112 – §115.119 §115.541 – §115.549
HGA004D	INVISTA S.A.R.L.	2869	Industrial Organic Chemicals, NEC	72.61	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HG02500	Gulf Coast Waste Disposal Authority	4952	Sewerage Systems	72.13	§115.140 – §115.149
LHA004D	Kerr-McGee Oil and Gas Onshore LP	1311	Crude Petroleum and Natural Gas	71.98	§115.112 – §115.119
HG0345C	Houston Fuel Oil Terminal Company	4226	Special Warehousing and Storage	71.04	§115.112 – §115.119 §115.211 – §115.219 §115.541 – §115.549
HG0225N	Albemarle Corporation	2869	Industrial Organic Chemicals, NEC	69.54	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG0193B	Oxy Vinyls LP	2869	Industrial Organic Chemicals, NEC	68.54	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
WB0003U	ExxonMobil Corporation	1321	Natural Gas Liquids	68.22	§115.120 – §115.129 §115.352 – §115.359
HG1175T	Kinder Morgan Liquid Terminals LLC	4226	Special Warehousing and Storage	67.50	§115.112 – §115.119 §115.211 – §115.219 §115.541 – §115.549
HG0675B	Southline Metal Products Company	3412	Metal Barrels, Drums, and Pails	65.01	§115.420 – §115.429
HG06600	Shell Pipeline Company LP	4613	Refined Petroleum Pipe Lines	63.86	§115.112 – §115.119 §115.541 – §115.549
MQ0007J	ExxonMobil Corporation	1311	Crude Petroleum and Natural Gas	63.62	§115.112 – §115.119
HG0312R	Chevron Products Company	5171	Petroleum Bulk Stations and Terminals	62.05	§115.112 – §115.119 §115.211 – §115.219
HG1249P	BASF Corporation	2869	Industrial Organic Chemicals, NEC	58.86	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789

Source Account #	Company Name	SIC Code	Source Description	Emissions (tpy)	RACT Determination
HG0717K	Akzo Nobel Chemicals Inc	2869	Industrial Organic Chemicals, NEC	57.84	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HX2762V	Deer Park Energy Center LP	4931	Electric and Other Services Combined	57.12	Additional control for RACT is not economically feasible.
HG0029P	LBC Houston LP	4226	Special Warehousing and Storage	56.34	§115.112 – §115.119 §115.211 – §115.219 §115.541 – §115.549
MQ0012Q	Huntsman Petrochemical Corporation	2869	Industrial Organic Chemicals, NEC	56.04	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789
HG9625W	Kirby Inland Marine LP	4491	Marine Cargo Handling	54.75	§115.211 – §115.219 §115.412 – §115.419 §115.541 – §115.549
CI0005A	Oneok Hydrocarbon Southwest LLC	1321	Natural Gas Liquids	52.90	§115.120 – §115.129 §115.352 – §115.359
HG0288M	Goodyear Tire and Rubber Company	2869	Industrial Organic Chemicals, NEC	52.35	§115.112 – §115.119 §115.120 – §115.129 §115.131 – §115.139 §115.140 – §115.149 §115.352 – §115.359 §115.541 – §115.549 §115.720 – §115.729 §115.760 – §115.769 §115.780 – §115.789