APPENDIX H

HGA Area Newly-Permitted Growth Project

Houston/Galveston Attainment Demonstration and
Post-1999 Rate-of-Progress SIP

December 2000

Houston/Galveston Area Newly-Permitted Growth Project

In an effort to obtain a more accurate emissions inventory for modeling purposes, agency staff updated its point source data by examining sources that had recently modified their emissions limits. The purposes of the project were as follows:

1. To provide the point source modeling inventory with the most accurate possible characterization of the future attainment year emissions.
2. To provide the growth from the base year (1997) point source modeling inventory to the future year (2007), as an alternative to using standard (EPA default) growth methodology, and
3. To provide staff who are writing regulations with an accurate accounting of sources which will potentially be controlled. Staff used the resulting emission inventory to assist in the design of control strategies and planning for the cap and program for point sources in the HG area.

This update was accomplished in two stages using two different methodologies. In the first stage, the Commission's modeling staff and a contractor, Environ, surveyed newly-permitted and planned facilities in and near the Houston/Galveston (HGA) nonattainment area (NAA). The details of this analysis can be found in Section Two of this appendix. Agency staff evaluated the results of the analysis and determined that further work was necessary.

In the second stage of the project, Air Permits staff evaluated a sample of air permit modifications in the HGA NAA. Agency staff compared the results of the second stage analysis to the first stage results and determined that the second stage results were more suitable for use in the design of control strategies and planning for the cap and trade program for point sources in the HGA area. Therefore the stage two results were used for modeling purposes. Details of this analysis can be found in Section One of this appendix.

Section One: Emissions Estimates by Air Permits Staff

Agency staff determined that the emissions estimates produced by the Air Permits staff were more accurate than the estimates used in the SIP Proposal. Therefore they decided to use them for modeling and emissions cap and trade purposes. What follows in this section is a step-by-step description of the process the Air Permits staff used to obtain its emissions estimates.

Selecting new, proposed, or modified sources in HG nonattainment area
Air Permits staff compiled a list of all air permit project applications within the 8-county HG area received since January 1, 1994. From this list, they chose all projects with a capital expenditure of $1 million or more for further analysis.

Estimating changes in allowable NOx emissions by emission point
For every Emission Point Number (EPN) within each chosen project, Air Permits staff compared the established allowable emission rates to the newly proposed allowable emission rates. They subtracted the established oxides of nitrogen (NOx) allowable rate from the proposed NOx allowable rate to determine increases and decreases in NOx emissions in pounds per hour and tons per year. Any new EPNs in a project were counted as increases.

Adjusting changes in allowable emissions for Chapter 117 combustion sources
Every emissions source with an increase or decrease in allowable NOx emissions was examined to

determine if it was subject to proposed changes in Chapter 117 of the Texas Administrative Code. For all affected sources, the NOx emissions were adjusted by the following calculation;

(NLA - OLA)*(New Chapter 117 Emission Factor)

where NLA is the new level of activity; OLA is the old level of activity

OLA = (old emission rate)/(old emission factor)

where OLA is the mass emitted per unit of activity

If the level of activity did not change for a particular increase or decrease, then no adjustment was made because a change was already assumed in the original SIP proposal.

Calculating total emissions changes

To calculate total changes in emissions, all adjusted increases and decreases in pounds per hour and tons per day were totaled in a spreadsheet**.** The total change in tons per year was then divided by 365 to obtain an average daily increase in emissions.

Quality Assurance Procedure

To check the calculations for accuracy, the calculation spreadsheet was sorted by increase amount to find the projects with the highest increases and the highest decreases in emissions. The projects accounting for 90% of the total increases and decreases were then double checked by Air Permits staff. Air Permits staff checked for correct emission factors and correct adjustment of emissions for Chapter 117. They also reviewed netting tables and discarded changes in emissions that were already included in the 1997 SIP model.

A summary of the emissions increases and decreases can be found in Table H-0 on the following page.

Table H-0. Summary of Changes in Allowable NOx Emissions

Account #	Company Name	Project #	Permit #	Issue Date	NOx Increase		NOx Decrease		Change based on 117	
					#/hr	TPY	#/hr	TPY	#/hr	TPY
BL0038U	Monsanto	26395	8372	09/13/94	6.30	2.00			1.00	1.00
HG0566H	Phillips 66	26581	4437A	06/02/94		2.36				2.36
HG0175D	Crown Central Petroleum	27447	5953	02/09/95			21.60	112.00	-10.70	-46.80
BL0082R	The Dow Chemical Company	27998	22084	05/12/95	5.16	22.60			5.16	22.60
HG0566H	Phillips Petroleum Company	28013	5562A	08/01/94	0.01	0.16			0.01	0.16
HG1478V	Stewart & Stevenson Services	28581	17692	08/02/94	370.60	12.70			370.60	12.70
BL0021O	BASF	29355	9513A	04/04/95	96.10	83.00			9.61	8.30
HG0310V	Chevron Chemical Company	29560	19027	04/04/95	0.42	1.83			0.04	0.18
HG7418U	Mrs. Baird's Bakeries	30805	26582	06/07/95	2.74	9.05			-0.96	-4.21
HG0175D	Crown Central Petroleum	31512	26891	07/28/95	8.15	19.70			1.40	4.34
HG8922U	Rohm & Haas	32019	27131	03/10/95	0.28	0.36			0.28	0.36
HG0218K	E.I. du Pont de Nemours	34040	28315	04/25/95	4.47	0.94			4.47	0.94
GB0076J	Union Carbide	35423	8752	10/18/95		12.20	51.60		-2.07	-8.70
HG0632T	Rohm & Haas Texas	35563	29010	09/25/95	0.39	1.64			0.39	1.64
HG1249P	Aristech Chemical	37183	8199A	07/28/95	0.80	2.20			0.80	2.20
CI0009P	Exxon Chemical Company	39485	4831	12/22/95		2.37	2.82		-9.78	-23.81
HG0941D	Solvay-Interox	39504	6754A	03/13/96	5.63	24.70			1.25	5.48
BL0021O	BASF	39945	8074A	04/12/96	33.64	147.35			4.26	18.65
GB0076J	Union Carbide	42575	6355	08/16/96			8.16	3.71	-8.16	-3.71
CI0142M	First Chemical Texas	43914	32770	09/11/96	1.74	1.52			0.45	0.39
HG0129K	Simpson Pasadena Paper	46529	20619	01/21/97	0.54	2.40				
HG0323M	Montell USA	47343	19036	03/20/97	3.00	0.13			3.00	0.13
HG0770G	Quantum Chemical Company	47394	5040	01/28/97	0.61	2.65			0.61	2.65
HX1525V	Kuraray America	48231	34401	04/09/98	3.41	13.22			2.23	8.08
CI0016S	Bayer Corporation	50317	35148	02/06/98	14.70	64.39			2.45	10.73
HG0512H	Natural Gas Odorizing	52129	3828	07/30/97			4.29	6.64	-4.29	-6.64
HG0126Q	Hoechst Celanese Chemicals	53798	4056	11/26/97	2.96			3.77	2.96	-3.77
HG0566H	Phillips Chemical Company	57848	37969	12/15/98	1.20	1.71			1.20	1.71
HX1772C	American Acryl	57886	37979	07/03/00	15.00	65.70			1.50	6.57
HX1772C	American Acryl	57888	37978	07/03/00	25.97	22.66			23.23	10.65
GB0055R	Marathon Ashland Petroleum	59246	22433	03/24/99			49.70	217.82	0.53	4.40
939563A	Cherry Crushed Concrete	61912	39563	02/01/99	12.33	18.49			-11.18	-16.34
MQ0012Q	Huntsman Petrochemical Corporation	62112	6068	01/28/99	0.66	0.50			0.66	0.50
HG3304S	Luzenac America	64148	8205	05/12/99	0.20	0.88			0.20	0.88

Account #	Company Name	Project #	Permit #	Issue Date	NOx Increase		NOx Decrease		Change based on 117	
					#/hr	TPY	#/hr	TPY	#/hr	TPY
GB0060B	Sterling Chemicals	64545	1272A	07/14/99			38.38	31.48	-38.38	-31.48
HG0232Q	Exxon Company USA	65303	18287	03/31/00			3617.50	15844.50	0.00	0.00
HG0629I	Paktank Corporation	66410	466A	11/16/99	2.67	3.17			2.96	3.77
HX2702Q	DB Western, Inc. - Texas	69897	43009	04/17/00	1.13	4.95			1.13	4.95
BL0141D	BASF	70065	9329	04/24/00	21.60	0.82			21.50	-1.16
BL0746J	Chemcentral Corporation	71339	43692				3.20	13.90	-3.20	-13.90
HG0228H	ExxonMobil Chemical Company	73058	3452		40.10	126.40			5.00	21.10
HG0674D	Champion International	25553	216	06/20/94			227.00	313.00	0.00	0.00
HG0632T	Rohm & Haas Texas	25604	2165	08/12/94	29.80	102.30			9.35	27.30
CI0118J	Municipality of Chambers County	25690	24247	12/13/94	5.60	24.60			5.60	24.60
HG0403N	Intercontinental Terminals	25834	1078	05/05/94	3.90	0.00			3.90	0.00
GB0001R	Amoco Chemical Company	25904	1176	06/06/94	0.04	0.20			0.04	0.20
HG0632T	Rohm & Haas Texas	26514	8838	06/16/94	11.80	9.25			11.80	9.25
HG0029P	Petrounited Terminals, Inc.	26580	3467B	12/05/94	12.10	23.54			12.10	23.54
HG0029P	Petrounited Terminals, Inc.	26580	3467B	12/05/94	12.10	23.54			12.10	23.54
BL0082R	The Dow Chemical Company	26632	3740	05/17/94			3.70	16.10	0.37	1.61
HG0131A	PPG Industries	26635	1862A	11/29/94	4.14	18.15			-1.06	-4.61
HG0033B	Lyondell Petrochemical	26794	24677	01/19/95	0.48	2.10			0.17	0.75
HG0659W	Shell Oil Company	27219	24874	01/10/95	5.70	24.97			1.43	6.24
HG0033B	Lyondell Petrochemical	27234	24887	11/23/94	9.14	13.52			9.14	13.52
HG0010N	Air Products	27278	21878	09/21/94						
HG0762F	United States Gypsum	27444	24990	10/25/94	21.00	64.00			6.00	25.00
GB0076J	Union Carbide Chemical & Plastics	27571	25034	01/26/95	57.00	220.00			27.60	107.00
GB0076J	Union Carbide Chemical & Plastics	27692	436	02/17/95	688.20	740.40			0.00	0.00
FG0053G	Champion Technologies	27769	25135	05/16/95	9.04	3.79			0.30	1.36
HG1028K	The Geon Company	28141	4673B	11/03/94	5.04	22.08			2.00	8.76
HG1065E	Keneka Texas	28184	18507	01/31/95	0.92	4.04			0.83	3.64
HG0343A	The GNI Group	28312	22094	06/21/95			1.77	7.84	-1.77	-7.84
GB0004L	Amoco Oil Company	28718	2612	10/26/94	9.21	33.64			3.07	11.21
MQ0012Q	Huntsman Corporation	29774	19641	11/07/94		0.01				0.01
HG7698J	Noltex	30243	19074	03/13/95			0.00	0.70	0.00	-0.70
BL0042G	Phillips Petroleum Company	30458	22690	04/18/95				64.32	9.75	42.70
CI0016S	Miles, Inc.	30676	2035A	01/30/95	0.53	2.82			0.13	0.59
HG0674D	Champion International	30845	190	03/09/95	1.20	5.30			0.12	0.53
HG1174V	Cogen Lyondell	30848	9241A	03/03/95	17.61	24.75			3.52	4.95

Account #	Company Name	Project #	Permit #	Issue Date	NOx Increase #/hr	NOx Increase TPY	NOx Decrease #/hr	NOx Decrease TPY	Change based on 117 #/hr	Change based on 117 TPY
BL0082R	The Dow Chemical Company	31058	4031	05/10/95	3.49	15.29			3.49	15.29
HG7758Q	Brightstar Biosyngas Partners	31113	26713	05/02/95	4.16	18.20			4.16	18.20
HG0621B	Lyondell Polymers	31264	3126A	03/15/95	31.85			3.05	31.85	-3.05
GB0076J	Union Carbide	31341/37459	P841/8752	07/31/95			161.00	949.40	0.00	0.00
HG0300B	Gulf Coast Portland Cement	31344	2255A	01/23/95	4.67	20.45				
BL0048R	Schnectady International	31371	2341	02/01/95						
GB0067K	Sea Lion Technology	32397	17439	04/05/95		1.95				1.95
HG0011L	Air Products	32441	27773	05/26/95	8.89	38.93			8.89	38.93
HG0228H	Exxon Chemical Company	32661	9910	09/11/95	88.40	265.70			0.00	0.00
LH0112H	Moss Bluff Gas Storage	32738	20205	07/14/95	3.23			15.00	1.60	0.00
BL0048R	Schnectady International	32837	2341	04/11/95	1.21	4.45			-0.74	-2.56
BL0038U	Monsanto	33227	18251	09/06/95	123.99	14.93			14.87	8.20
GB0325L	Praxair	33307	20250	05/09/95	52.86	24.91			48.98	7.90
GB0060B	Sterling Chemicals	33317	5260B	05/15/95		26.70	35.10		-35.10	16.60
BL0002S	Amoco Chemical Company	33605	95	07/13/95	22.32	92.00			2.48	10.20
HG1966R	Oxy Petrochemicals	33654	6257E	03/29/95			0.16	0.71	-3.31	-14.50
FG0082W	Crown Cork & Seal	33660	9331	03/29/95	5.00	20.90			1.20	5.20
HG0228H	Exxon Corporation	33771	3452	10/03/95	133.30	399.70			14.50	57.72
CI0008R	Enterprise Products	33903	20459	05/02/95	0.80	3.60			0.00	0.00
HG0665E	Solvay Polymers	34138	28351	06/23/95	6.85	2.20			6.85	2.20
BL0082R	The Dow Chemical Company	34212	28363	05/08/95	1.18	3.95			0.08	2.37
HG0029F	Exxon Chemical Company	34323	28441	10/04/95			3.12	5.72	0.41	1.77
HG0289K	Goodyear Tire and Rubber	34432/36242	6618	10/16/95	1.68	6.26			1.68	6.26
HG1972I	Patterson Tubular Services	34664	28590	06/19/95	1.45	6.36			0.89	3.92
HG0232Q	Exxon Company USA	34692	9163	12/15/95			1.60	7.20	0.30	1.20
CI0102B	Belvieu Environmental Fuels	34717	20698	05/04/95	1.09	7.83			1.09	7.83
HG0564L	Petrolite Corporation	34806	3836	10/24/95	2.78	0.52			2.78	0.52
HG0232Q	Exxon Company USA	34886	28697	01/12/96			206.70	47.20	-206.70	-47.20
HG1218D	Eurecat U.S., Inc	34939	9335	09/29/95	1.07	4.67			1.07	4.67
GB0076J	Union Carbide Corporation	35303	6355	11/06/95			0.03	0.53	-0.03	-0.53
LH0039P	Southwest Quikrete	35522	8605	12/21/95	1.16	5.08			0.52	2.20
DF0642D	Energy Development	35579	44396	05/12/95	0.99	4.33			0.36	1.57
CI0009P	Exxon Chemical Company	35959	4831	05/26/95		5.33				5.33
HG0762F	United States Gypsum	36137	24990	10/25/95	1.00	5.00			1.00	1.00

Account #	Company Name	Project #	Permit #	Issue Date	NOx Increase #/hr	NOx Increase TPY	NOx Decrease #/hr	NOx Decrease TPY	Change based on 117 #/hr	Change based on 117 TPY
HG1575W	Arco Chemical Company	36223	18103	12/01/95			1.02	10.00	0.90	3.94
HG1575W	Arco Chemical Company	36331	19613	02/16/96			5.40	9.32	-0.10	-0.40
HG0957N	Lonza, Inc.	36334	22099	12/15/95	3.44	15.07			3.44	15.07
BL0082R	The Dow Chemical Company	36519	29445	03/14/96	81.00	44.00			8.10	35.48
CI0016S	Bayer Corporation	36555	29481	03/06/96	1.20	3.20			0.12	0.32
HG0195V	ISK Magnetics, Inc.	36763	22459	12/28/95		0.23	0.10		-0.10	0.23
HG0460B	The Lubrizol Corporation	36936	7264	11/17/95	95.24	12.09			9.52	1.21
MQ0012Q	Huntsman Corporation	37124	19624	09/18/95	0.00	0.35			0.00	0.35
HG0659W	Shell Oil Company	37984	21262	10/02/95						
HG3312T	Power Cleaning Systems of Houston	38051	30197	05/23/96	3.28	14.35			2.73	11.95
HG0132V	Advanced Aromatics	38387	2321	05/14/96	0.00	0.56			0.00	0.56
GB0077H	Union Carbide Corporation	38476	3284	04/30/96	5.63	5.02			0.00	0.00
HG0021O	BASF	38478	19886	04/12/96	0.70	2.83			0.18	0.79
HG0323M	Montell USA	38838	19546	12/20/95	2.70	5.83			2.70	5.83
BL0029V	Gulf Chemical & Metallurgical	38839	19793	01/11/96	0.53	1.76			0.53	1.76
HG0770G	Quantum Chemical Company	39126	19109	06/27/96	11.68	29.28			10.51	26.35
HG0566H	Phillips Chemical Company	39186	4437A	02/22/96	4.50	14.10			2.50	5.50
LH0026B	Louisiana-Pacific Corporation	39607	6192	07/11/96						
HG0632T	Rohm & Haas Texas	39810	8838	01/23/96	10.59	36.92			9.32	36.50
CI0016S	Bayer Corporation	40131	2035A	02/23/96	1.35	5.89			0.14	0.59
HG0126Q	Hoechst Celanese Chemicals	40142	31178	08/30/96	16.90	74.10			1.69	7.41
HG0037Q	Site Concrete	40180	2487	12/14/95		2.47	3.99		-3.99	2.47
BL0082R	The Dow Chemical Company	40193	2472	05/29/96			19.41	85.00	-19.41	-85.00
BL0028R	The Dow Chemical Company	40194	770	08/22/96	38.51	80.56			7.73	18.15
BL0082R	The Dow Chemical Company	40254	20432	03/14/96	1.84	8.80			0.18	0.88
BL0082R	The Dow Chemical Company	40506	3740	06/04/96	2.90	12.60			0.00	0.00
BL0622F	Sweeny Cogeneration	41410	31914	09/09/96	687.30	2151.43			93.78	293.55
GB0004L	Amoco Petroleum	41563	2610	04/19/96	8.50	37.23			3.00	11.00
HG1451S	Occidental Chemical	41642	18384	02/21/97	1.73	7.56			0.17	0.76
GB0001R	Amoco Chemical Company	41709	31936	11/21/96	5.86	25.65			2.42	10.58
HG0323M	Montell USA	41899	9496	10/09/96	0.29	1.26			0.29	1.26
HG3307M	Huntsman Chemical	42048	5252	05/10/96	2.12	0.55			0.21	0.06
HG0131A	PPG Industries	42202	1862A	06/13/96	0.54	0.43			0.54	0.43
HG1575W	Arco Chemical Company	42393	3346	10/22/96			58.50	256.00		
HG9954A	Calpine Corporation	42511	32263	12/04/96	99.00	287.70			26.97	118.15

Account #	Company Name	Project #	Permit #	Issue Date	NOx Increase #/hr	NOx Increase TPY	NOx Decrease #/hr	NOx Decrease TPY	Change based on 117 #/hr	Change based on 117 TPY
BL0626U	Union Carbide Corporation	42572	32274	10/25/96	5.61	24.57			5.61	24.57
HG0029P	MEMC Pasadena	42574	9597	12/23/96	1.52	6.66			1.52	6.66
HG3604D	Global Octanes Corporation	42909	20042	06/14/96	49.80	3.74			49.80	3.74
FG0494S	Great Western Publishing	43100	32475	06/26/96	2.00	8.60			0.70	3.10
HG1575W	Arco Chemical Company	43367	4121	05/23/97	38.17	25.06			38.17	25.06
CI0016S	Bayer Corporation	44139	32835	02/13/97	4.02	17.61			0.42	1.76
BL0021O	BASF	44547	7596A	09/03/97	0.00	0.00			2.92	12.80
HG0323M	Montell USA	44769	9423	11/15/96	0.29	1.26			0.29	1.26
HG4662F	Fina Oil & Chemical	44952	5264	10/03/96	7.01	27.33			5.15	20.51
HG0531D	Oil Tanking Houston	45285	5631	04/10/97	7.88	34.52			2.48	10.88
CI0016S	Bayer Corporation	45402	2035A	01/31/97	1.14	6.00			0.14	0.60
LH0005J	Huntsman Petrochemical	45851	3275A	12/27/96	1.69	7.39			1.69	7.39
HG0717K	Akzo Nobel Chemicals	45901	34028	02/13/97	0.39	0.30			0.39	0.30
CI0008R	Enterprise Products	46209	8418	07/30/97	90.20	295.60			0.00	0.00
CI0008R	Enterprise Products	46216	8707	07/30/97	65.80	210.00			0.00	0.00
CI0008R	Enterprise Products	46217	6798	07/30/97	35.50	123.10			0.00	0.00
BL0082R	The Dow Chemical Company	46545/46660	20432	09/12/97			84.64	60.00	-29.70	-18.10
HG0195U	ISK Biosciences, Inc.	46787	3945A	01/08/97						
CI0148A	El Dorado Nitrogen Company	47091	33987	07/17/97	20.30	62.40			20.30	62.40
HG1391L	Tejas Gas Pipeline	47487	34137	08/28/97	20.94	17.34			20.94	17.34
HG0232Q	Exxon Company USA	47505	34139	02/21/97	5.38	23.56			1.24	5.44
HG9085L	CBI NA-CON, Inc	47617	34184	08/05/97	1.00	4.40			0.40	1.60
MQ0012Q	Huntsman Petrochemical	47879	19641	12/11/96			0.01	0.30	-0.01	-0.30
HG0036S	Fina Oil & Chemical	48292	21538	05/28/97	6.31	28.34			0.07	1.03
HG0632T	Rohm & Haas Texas	48298	29010	04/28/97			0.01	0.07	-0.01	-0.07
HG4078U	Stolt-Nielsen, Inc.	48370	23405	08/20/97	0.96	0.35			0.96	0.35
HG0011L	Air Products	48910	105	08/01/97			0.53	1.68	-0.53	-1.68
BL0670R	Coastal Refining & Marketing	49337	34803	09/04/97	1.21	0.21			1.21	0.21
HG0229F	Exxon Chemical Americas	49766	8586	06/12/97	3.97	1.72			3.97	1.72
HG0825G	Aristech Chemical	49890	5572B	08/26/97	7.25	22.31			1.20	5.52
BL0082R	The Dow Chemical Company	49982	20432	01/09/98	1.93	6.02			0.66	3.31
HG0011L	Air Products	50008	2113	05/13/97	0.53	2.32			0.53	2.32
HG7698J	Noltex	50315	19074	11/12/97	4.78	2.61			4.78	2.61
HG0566H	Phillips Chemical Company	50375	5562A	10/13/97	3.71	0.66			3.71	0.66

Account #	Company Name	Project #	Permit #	Issue Date	NOx Increase		NOx Decrease		Change based on 117	
					#/hr	TPY	#/hr	TPY	#/hr	TPY
MQ0548O	Moyno Oilfield Services	50623	35266	03/13/98	0.30	0.04			0.10	0.01
HG0715O	Star Enterprises	50860	26638	07/03/97	3.00	7.54			3.00	7.54
HG0659W	Shell Oil Company	51230	3179	06/17/98	4.40	15.60			0.44	1.56
HG0537O	Arco Chemical Company	51281	1409	02/09/98	2.41	2.46			2.41	2.46
CI0022A	Warren Petroleum	51304	5452	09/04/97	12.30	53.87			2.10	9.16
BL0038U	Monsanto	51466	8372	12/05/97	5.13	15.00			1.00	1.50
GB0325P	Praxair	51763	35716	10/20/98	85.22	39.52			82.00	25.43
BL0002S	Amoco Chemical Company	51989	35735	10/10/97	66.70	12.04			66.70	12.04
HX1544R	Baroid/Vidco, Inc.	52047	35763	10/28/97	0.55	2.41			??	??
HG0611R	Union Tank Car Company	52207	5566	03/20/98	15.95	2.14			15.95	2.14
HX1546N	Air Products	52308	35873	04/08/98	11.14	0.40			11.14	0.40
BL0687A	Silica Partners	52549	35978	10/15/97	21.52	80.32			21.18	78.84
CI0008R	Tame Envro-Fuels Partners	52963	22112	05/04/00	38.46	130.03			14.42	59.84
HG0229F	Exxon Chemical Americas	53719	36476	05/13/98	35.86	4.19			34.32	3.77
HG0986E	Matlack, Inc.	54104	18447	06/01/98	1.50	0.00			1.50	0.00
HG0033R	Lyondell Petrochemical	54230	2635	12/03/97	0.30	1.88			0.30	1.88
HG0772C	Domco, Inc.	54489	36756	02/24/98	7.61	2.30			1.00	1.00
CI0005A	Koch Hydrocarbons	54541	3956B	04/10/98	32.19	181.71			18.65	122.40
HG0190H	ICI Paints	54880	1493B	03/19/98	0.10	1.10			0.10	1.10
CI0009P	Exxon Chemical Company	55011	19016	12/18/97	0.41	1.33			0.04	1.33
HG0310V	Chevron Chemical Company	55354	37063	09/29/98	23.74	12.95			22.39	7.04
BL0082R	The Dow Chemical Company	55410	20432	08/31/98	35.04	153.45			5.84	25.60
HG0770G	Equistar Chemicals	55433	5836	06/11/98	0.13	0.58			0.13	0.58
BL0021O	BASF	55658	735B	06/25/98	117.11	330.84			17.83	68.01
BL0622F	Koch Refining	55727	31914	09/30/98	229.10	279.37			31.26	38.12
HG0030H	Anheuser-Busch	55739	8904	04/02/98	4.60	12.59				
HG0659W	Shell Oil Company	55771	37206	10/27/98	37.00	150.90			3.70	15.90
HG9954A	Calpine Corporation	55937	37283	09/30/98	167.10	470.40			66.83	263.40
HG0264D	Hughes Christensen Metallurgical Products	55978	7793A	08/21/98						
HG0048L	Lyondell-Citgo Refining	56170	2167	02/02/99			702.72	3077.90	0.00	0.00
HG0632T	Rohm & Haas Texas	56436	1257A	10/27/98	0.40	1.78			0.40	1.78
GB0076J	Union Carbide Corporation	57126	2958A	08/19/98			308.60	1385.80	-349.50	-1360.20
LH0112H	Marker Hub Partners	57422	20205	06/30/98	6.63			15.40	-1.59	-15.40
BL0082R	The Dow Chemical Company	57633	37884	09/17/98	0.07	0.32			0.07	0.32

Account #	Company Name	Project #	Permit #	Issue Date	NOx Increase #/hr	NOx Increase TPY	NOx Decrease #/hr	NOx Decrease TPY	Change based on 117 #/hr	Change based on 117 TPY
BL0042G	Phillips 66	57832	30513	12/14/98	46.77	177.34			9.18	37.51
HG0229F	Exxon Chemical Americas	58249	8586	07/02/98	9.70	2.21			9.70	2.21
HG0126Q	Celanese	58653	38296	03/16/00	88.04	384.80			-3.90	-12.60
HG0131A	PPG Industries	58704	1862A	10/15/98	0.84	0.87			0.84	0.87
HG0659W	Shell Oil Company	58735	18576	08/21/98	6.18	23.59			6.18	23.59
BL00038U	Solutia	58739	38336	12/31/98	176.33	176.40			21.41	19.73
HG0030H	Anheuser-Busch	59131/59148	8904	7/31/99,7/13/99			44.10	70.70	44.10	70.70
GB0073P	Valero Refining	59945	1122A	12/15/98			16.68	165.68	9.40	-56.60
BL0042G	Phillips 66	60016/60018	5682A/5687A	12/30/98	16.15	25.02			8.45	27.76
CI0008R	Enterprise Products Operations	60069	8707	08/04/99			30.50	103.00	-57.00	-203.00
HG0632T	Rohm & Haas Texas	60077	8838	12/09/98	3.91	1.83			3.91	1.83
CI0016S	Bayer Corporation	60340	35148	04/23/99	7.76	34.00			2.45	10.73
HG0141U	Carpenter Company	60446	4757	10/27/98	0.45	0.43			0.45	0.43
HG0011L	Air Products	60462	27773	08/20/98	19.42	5.13			0.56	0.23
HG3854B	Metalplate Galvanizing	60732	20662	11/25/98	1.33	4.22			0.47	1.50
GB0073P	Valero Refining Company - Texas	60941	39142	12/17/99			0.40	20.10	-0.40	-20.10
HG0174F	Cordell Brick Company	60949	39144	12/14/98	0.96	4.20			0.34	1.50
BL0038U	Solutia	61075	39171	12/31/98	15.37	5.99			15.37	5.99
GB0028O	ISP Technologies	61144	22079	10/26/98	0.25	1.10			0.18	0.79
939265L	Baytown Asphalt Materials	61247	39265	10/28/98	31.15	15.58			4.00	2.00
HX2263V	Van Leer Containers	62693	39946	03/15/99	1.40	5.40			0.50	1.00
HG0126Q	Celanese	63214	264	04/14/99	32.00	127.50			3.20	12.80
HG0659W	Shell Oil Company	63352	21262	06/02/99	0.90	3.00			0.90	3.00
HG0017W	Williams Energy Services	63525	4850	10/06/99	1.13	4.93			0.11	0.49
HG1006U	Baytank, Inc.	63796	8865	03/19/99	0.00	0.10			0.00	0.10
HG0232Q	Exxon Company USA	63861	40394	09/10/99	26.84	89.20			5.21	18.08
HG0460B	Lubrizol Petroleum Chemicals Co.	64417	19002	03/29/00	3.21			3.92	3.21	-3.92
GB0005J	Stantrans	64446	1677	04/28/99	4.74	3.54			4.74	3.54
HX2290S	Initial DSI Transport	64554	40710	08/23/99	3.19	2.58			2.96	1.53
HG1174V	Cogen Lyondell, Inc.	64694	9241A	11/03/99			880.00	4841.00	139.10	609.30
BL0021O	BASF	64740	40799	03/07/00	95.60	418.60			10.30	45.40
HX3303L	JP Pack Limited	65060	40947	07/23/99	1.50	3.70			0.50	1.30
HG0319O	Haltermann, LTD	65554	6283	11/17/99				17.10	0.00	0.00
HG0770G	Equistar Chemicals	65612	19501	08/30/99	0.36	0.88			0.36	0.88

Account #	Company Name	Project #	Permit #	Issue Date	NOx Increase #/hr	NOx Increase TPY	NOx Decrease #/hr	NOx Decrease TPY	Change based on 117 #/hr	Change based on 117 TPY
HG0048L	Lyondell-Citgo Refining	65762	2167	05/18/99	383.50	53.30			383.50	53.30
HG0225N	Albemarle Corporation	66459	2101	03/06/00	7.30	8.90			7.30	8.90
HG0127O	Celanese	66489	462	08/18/99	1.20	7.29			0.12	0.73
BL00042G	Phillips 66	66899	5682A	03/01/00			1.25	5.49	-1.25	-5.49
HX2343B	Reliant Energy Channelview	67045	41775	12/09/99	132.80	365.60			132.80	365.60
HX2346Q	Chambers Energy, LP	67099/67100	41802/P947	08/31/00	308.00	714.00			202.00	687.00
CI0184T	Calpine Corporation	67544	41996	02/11/00	87.90	324.30			87.90	324.30
HG10229F	Exxon Chemical	67866	20211	01/11/00	0.61	2.60			0.06	0.26
916895P	Paver's Supply	67971	16895A		35.80	16.80			3.58	1.68
HX2690V	Calpine Construction Finance	68025	42179	03/22/00	164.70	372.00			164.70	372.00
HG3757A	Enichem Elastomers Americas	68113	42213	06/06/00	6.55	23.61			2.40	8.50
HX2631O	North American Galvanizing	68118	42218	02/23/00	2.34	9.75			2.34	9.75
HG0813N	BASF	68319	6235A	06/05/00			0.59	2.87	-0.59	-2.87
HG0621B	Equistar Chemicals	68518	4157A	04/24/00			2.17	11.58	-2.17	-11.58
HG0770G	Equistar Chemicals	68519	4477	07/25/00	1.05	4.17			0.11	0.42
HG0461W	Elf Atochem North America	68787	20970	03/28/00		5.40				-0.54
HG7221O	Greif Brothers Corporation	68932	20176	01/13/00			0.40	1.20	0.10	0.21
HG0633R	Safety-Kleen, Inc.	68970	5064	09/05/00	142.37	10.25			142.37	10.24
HG0028R	Anchor Glass Container	69034	42623	07/03/00	46.30	202.00			0.00	30.21
HG0037Q	Akzo Nobel Chemicals	69332	9402	02/15/00	3.52	9.60			0.25	0.69
HG0345C	Houston Fuel Oil Terminal	69421	5783	04/07/00	16.20	33.00			1.80	7.88
BL0082R	The Dow Chemical Company	69473	19041	07/13/00	1.46	6.38			17.02	74.52
CI0042R	Conoco Inc.	69573	21593		0.93	4.08			0.93	4.08
HG0265B	General Electric International	69632	42849		0.45	2.00			0.45	2.00
CI0188L	Texas Industrial Power	69643	42905		31.60	123.40			25.30	98.72
HX2687K	The Methodist Hospital	69807	42976		4.41	17.60			1.10	4.40
HG0130C	Valero Refining Company - Texas	69928	2501A	08/04/00			0.00	129.00	0.00	-129.00
HG0659W	Shell Oil Company	70177	3219	09/07/00	252.00	381.00			29.00	127.00
HG0599P	Quality Electric Steel Castings	70201	1627	08/07/00		3.10				
	Vulcan Construction Materials	70370	9402	02/15/00	5.30	23.30			5.30	23.30
HG0037Q	Akzo Nobel Chemicals	70379	9402	06/20/00	5.31	23.26			4.33	18.97
HG0460B	The Lubrizol Corporation	70548	1685	09/27/00	4.70	4.14			1.95	1.47
HG0461W	Elf Atochem North America	70586	6271	05/09/00	2.10	9.10			0.20	0.90
HG1923V	Owens Corning	70802	19742		5.44	14.84			4.96	12.74
HG0459J	The Lubrizol Corporation	70869	22048	06/27/00	0.26	1.14			0.26	1.14

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					#/hr	TPY	#/hr	TPY	#/hr	TPY
HG3528R	Dana Container	71034	43535		38.62	9.91			32.65	9.42
HG0229F	ExxonMobil Chemical Company	71482	20211	08/11/00	5.88	24.10			5.88	24.10
HG0903L	Haldor Topsoe, Inc.	71499	43752	07/10/00	1.67	4.87			1.67	4.87
943966F	E.B. Peavey Construction	71561	43966	07/10/00	16.00	8.00			16.00	8.00
BL0747H	Crespo Family Services	71581	43802		0.20	0.30			0.20	0.30
HG3515D	Mirror Industries	71655	43831	07/21/00	0.10	0.06			0.10	0.06
FG0020V	Reliant Energy	71660	P234				0.00	3611.00	0.00	127.60
HG0459J	The Lubrizol Corporation	71679	21933	07/13/00			0.88	3.93	-0.88	-3.93
FG0595L	Avista-Steag	72011	43965	10/17/00	64.80	234.80			64.80	234.80
HX2714J	Palm Petroleum	72282	44086		1.64	0.22			1.64	0.22
LH0232T	Cedar Power Partners	72450	44175		56.00	206.00			56.00	206.00
MQ0625A	MC Energy Partners	72453	44174		56.00	206.00			56.00	206.00
918091D	Martin Marietta Materials	72565	18091D		14.40	8.10			1.40	0.81
HX1525V	Septon Company of America	72570	34401		6.72	23.78			5.22	17.21
HX2718B	International Trading Company	72593	44232		0.10	0.50			0.10	0.50
HX2717D	International Trading Company	72594	44231		0.10	0.40				
GB0568G	Reliant Energy Renewables	72671	44277		21.70	95.06			21.70	95.06
HX2716F	Reliant Energy Renewables	72697	44278		21.70	95.06			21.70	95.06
MQ0627T	Reliant Energy Renewables	72700	44276		12.40	51.54			12.40	51.54
HX2724G	CSR Hydro Conduit	72729	44396		1.00	4.30			1.00	4.30
HG0245H	FMC Corporation	72903	19796	08/16/00			0.13	0.36	-0.13	-0.36
HG0065E	Solvay Polymers	73060	28351							
HG0232Q	ExxonMobil Refining	73170	44533							
GB0004L	BP Amoco	73331	19599	07/17/00			4.90	17.90	-0.49	-1.79
WF0168M	Secured Environmental Management	73369	38972							
HX2726C	Houston Airport System - City of Houston	73466	44652	09/13/00	5.88	20.80			2.52	8.90
HG0762F	United States Gypsum Company	73547	24990		5.32	3.78			2.40	-1.92
HX2732H	CSR Hydro Conduit	73698	44764		1.50	4.63			1.50	4.63
BL00210	BASF	73873	735B	07/21/00			5.04	18.88	0.00	0.00
HG3626Q	Nisseki Chemicals Texas	73948	19624	09/20/00						
WA0052S	Steely Lumber Company	73983	25850				3.78	12.80	-3.75	-13.58
HG0048L	Tetra Process Services	74053	44938	08/07/00	0.02	0.09			0.02	0.09
HG0261J	GATX Terminals Corporation	74209	45030	07/28/00						
HG0717K	Akzo Nobel Polymer Chemicals	74290	45065							
HX2742E	International Forest Products	74314	45071		0.50	1.62			0.50	1.62

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BL0048R	The Dow Chemical Company	74699	45260	09/05/00	1.12	4.90			1.12	4.90
HG0229F	ExxonMobil Chemical Company	74779	36476	08/30/00						
HG0010N	Air Products	75080	21878		129.29	70.70			34.48	18.85
940713L	Cherry Crushed Concrete	75232	40713C		5.40	8.20				0.82
BL0005M	Hilcorp Energy	75400	39982		29.55	129.25			2.51	10.98
HX2762V	Calpine Construction Finance	75401	45642		196.80	581.00			196.80	581.00
HX0791F	Cargill	75404	45645		0.50	2.10			0.50	2.10
BL0002S	BP Amoco	75962	95		38.05	160.97			11.23	44.59
GB0004L	BP Amoco	76254/76255	46042/P981		106.50	385.60			106.50	385.60
BL0082R	Dow	76269	21596				0.51	3.24	-0.51	-3.24
GB0001R	BP Amoco	76278	8978		9.22	15.58			9.22	15.58
GB0001R	BP Amoco	76282	46046		8.62	30.36			8.62	30.36
GB0004L	BP Amoco	76288	46052		4.50	15.72			4.50	15.72
	Reed Minerals Division - Harsco Corp	76289	46053		0.98	2.00			0.36	0.72
HX1726J	Millennium Petrochemicals	76309	46077		0.11	0.01			0.11	0.01
HG0048L	Lyondell-Citgo Refining LP	76311	2167		37.31	141.40			13.31	49.69
HG0665E	Solvay Polymers, Inc.	76515	28351				19.77	95.04	-3.03	-13.30
HG0195U	GB Biosciences Corporation	76517	4893A		6.00			12.17	6.00	-12.17
HG0988A	Thermal Energy Cooperative	76521	46189		3.94	17.22			3.02	13.23
BL0002R	BP Amoco				22.90	90.77			22.90	90.77
	Performance Plastic Products	76552	46200		1.43	1.67			1.43	1.67
BL0005M	Hilcorp Energy	76635	39982		41.32	180.95			3.08	13.50
HG0310V	Chevron Phillips Chemical Co.	76761	46305		172.44	4.87			172.44	4.87
BL0082R	The Dow Chemical Company	76762	46306		357.60	741.00			357.60	741.00
FG0595L	Avista-Steag	76827	43965		64.80	237.00			75.80	284.40
	Superior Carriers, Inc.	76882	46340		2.20	9.62			2.20	9.62
HG0676W	Southwest Chemical Services	76883	46351		0.07	0.20			0.07	0.20
HG0632T	Rohm & Haas Texas	76896	751		13.41	11.90			13.41	11.90
BL00210	BASF		9513A		0.11	68.45			0.01	6.80
CI0009P	ExxonMobil Chemical Company		4831		63.79	10.31			63.79	10.31
HG0036S	AtoFina Petrochemicals	76964	3908B		40.00	102.00			1.20	3.06
HG0194W	Oxy Vinyls	76980	7647B		16.90	66.10			14.40	55.08
GB0055R	Marathon Ashland Petroleum	77032	22433		5.68	24.90			5.68	24.90
BL0113I	Equistar Chemicals	77033	4634B		44.00	192.00			12.50	54.75
HG0770G	Equistar Chemicals	77035	18978				11.52	111.80	-85.78	-460.12

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HG0033B	Equistar Chemicals	77050	46417				27.60	180.00	-27.60	-180.00
BL0113I	Equistar Chemicals	77052	46418				20.00	90.00	-25.60	-112.30
HG0033B	Equistar Chemicals	77060	46423		200.30	391.90			137.19	115.10
	B.D. & D.W. Interests Inc.	77061	46424		6.62	29.00			6.62	29.00
	Texas Quality Products, Inc.	77063	46425		2.50	2.75			0.54	0.84
HG0562P	Texas Petrochemicals, LP	77064	46426		234.30	585.10			128.38	562.00
BL0082R	The Dow Chemical Company	77065	46427		8.58	37.44			8.58	37.44
BL0082R	The Dow Chemical Company	77067	46428		15.00	0.87			15.00	0.87
BL0082R	The Dow Chemical Company	77068	46430		10.34	42.41			10.34	42.41
BL0082R	The Dow Chemical Company	77069	46431		4.35	19.05			4.35	19.05
HX2690V	Calpine Construction Finance	77117	42179		62.10	95.20			39.68	95.20
HG0459J	The Lubrizol Corporation	77118	46464		0.01	0.01			0.01	0.01
HG0276T	Georgia Gulf Chemicals & Vinyl	77140	4825A		65.70	15.00			2.50	10.95
HG0769Q	The Dow Chemical Company	77141	46465		8.94	39.17			8.19	35.88
FG0042L	Crompton Corporation	77194	46488		0.16	0.06			0.16	0.06
HG0195U	GB Biosciences Corporation	77259	234B		18.50	1.02			18.50	1.02
HG0033B	Equistar Chemicals		2933		2.80	12.20			0.70	3.07
HG0033B	Equistar Chemicals		1768		2.80	12.20			0.70	3.07
HG0659W	Shell Chemical Company		18209				3.30	14.48	-5.05	-7.68
HG0659W	Shell Chemical Company		19849/3173		2.31	10.10			2.31	10.10
HG0659W	Shell Chemical Company		3219		12.38	54.20			12.38	54.20
HG0486G	Merisol	77288	20686		1.40	4.00			1.40	4.00
HG0483N	ITC	77290	1078		0.00	2.09			0.00	2.09
BL0626U	Air Liquide America Corporation	77293	32274		16.37	49.78			10.95	31.52
HG0770G	Equistar Chemicals	77295	46530				21.20	93.00	-27.40	-121.28
	Mitchell Gas Services	77297	46531		5.34	23.30			5.34	23.30
HG0659W	Shell Oil Company	77299	46535		2.40	10.51			1.20	5.26
GB0055R	Marathon Ashland Petroleum	77300	22433		4.68	20.50			2.33	10.19
BL0042G	Phillips	77302	46537		60.07	256.30			55.37	239.84
HG0229F	ExxonMobil Chemical Company	77303	36476		59.21	5.63			59.21	5.63
BL0021O	BASF	77307	43336		0.00	18.40			0.00	18.40
HG0229F	ExxonMobil Chemical Company	77308	20211				55.36	242.50	-95.73	-419.28
				Total	9346.60	19196.76	6772.44	32444.80	3947.67	6887.13

Account #	Company Name	Project #	Permit #	Issue Date	NOx Increase		NOx Decrease		Change based on 117	
					#/hr	TPY	#/hr	TPY	#/hr	TPY
				TPD	112.16	52.59	81.27	88.89	47.37	18.87

Net TPD based on annual emissions	-36.30

Net TPD based on hourly emissions	30.89

Section Two: Emissions Estimates by Commission Modeling Staff

Commission modeling staff did an initial examination of new and recently-modified point sources to update its point source emissions inventory. Upon examination of the results obtained, staff determined that the process used was inadequate to produce accurate estimates of changes in allowable emissions. Therefore Air Permits staff followed the procedure outlined in Section One of this appendix to produce more accurate emissions estimates. What follows in Section Two is a detailed, step-by-step description of the procedure followed by Commission modeling staff to produce its initial estimates of changes in allowable emissions. The procedure outlined in Section Two has been superseded by Section One.

Cataloging newly-planned sources in the HG nonattainment area and in nearby counties
Commission staff and Environ, working on site at the TNRCC, catalogued newly-issued or proposed (since approximately 1997) permits within the HG 8-county area and in counties within 100 miles of the 8-county area. Data necessary to characterize each point source for modeling was retrieved from the permit files, then entered into spreadsheets. Commission modeling staff, contractors, permit engineers, and occasionally facility environmental managers worked together to ensure that each source meeting the criteria explained below was represented thoroughly enough to be entered into the CAMx model.

Sources with Significant Emission Changes
Staff identified sources, on an emission point number (EPN) level, which have significant emission changes, such as EPNs planned for permitted (enforceable) startup (including entirely new facilities), shutdown, increased operation, or add-on control measures resulting in decreased operation. Staff prepared spreadsheet records which were converted into either: 1.) a model-ready formatted file for new sources, or 2.) "control packets" for changes to existing sources already in the 1997 modeling inventory.

In a subsequent section below, we have presented a description of the process that staff followed to identify which new sources would be added to the modeling inventory and which existing sources would be modified using control packets.

Initial List of Permits/Applications
Again, the goal of this project was to identify all new EPNs and significantly-changed EPNs that are not represented in the 1997 modeling inventory that have already (via permit) or are expected to (via permit application) operate in years subsequent to 1997. Commission Policy staff and Air Permits staff coordinated to generate an initial list of potential permits and applications that modeling staff and contractors would review. The initial list was queried from the permits database for several criteria:

- permit/modification application (project) received by Air Permits staff after 1/1/94
- HG 8-county NAA sources:
  - queried the permit database for projects with fees equal to or greater than $1500, corresponding to $1M projects or larger
  - the permit engineer on record for each of these approximately 470 projects was then asked to discard ones that did not have large NOx changes associated with the project
- Outside of the HG NAA but within approximately 100 miles of the NAA:
  - the facility already has or is applying for a PSD (Prevention of Significant Deterioration) permit for NOx
  - originally limited to counties that had chemical and refining facilities
  - the permit engineer on record for each of these projects was then asked to discard ones that

did not have large NOx changes associated with the project

The choice of 1/1/94 as the cutoff date for looking at historical projects was based on the fact that it occasionally takes 3 years for a proposed project to become operational. The definition of "large NOx changes" was somewhat arbitrary and left to the discretion of the permit engineer familiar with that project. The modeling staff later quantified a term, significant changes, such that each project would be treated in a consistent fashion as others (commission staff and contractors), unfamiliar with the projects, reviewed them. The modeling staff also screened projects for significant VOC changes. This process is described in the following section.

Permitting Project Process Description

Figure H-1, located at the end of this Appendix, is a flow diagram that outlines the process used to screen permit files for sources of significant changes in NOx and/or VOC emissions. Because we are updating a 1997 point source inventory, sources that reflect modifications since 1997 were sought. Each of the numbered steps shown on the flow diagram are described in the detail below.

Tables H-1 through H-5 , located at the end of this Appendix, demonstrate the results of this project.

1. *Required area?*

Each file was examined to verify that the units covered by each individual permit were within the area of interest. This area includes all counties within 100 miles of the Houston/Galveston NAA counties, as well the eight counties included in the HG NAA:

1. Brazoria
2. Chambers
3. Fort Bend
4. Galveston
5. Harris
6. Liberty
7. Montgomery
8. Waller

And the three counties in the Beaumont/Port Arthur non-attainment area:

1. Hardin
2. Jefferson
3. Orange

The area within 100 miles of the HG area encompasses the following attainment counties:

1. Aransas,
2. Refugio,
3. Goliad,
4. Calhoun,
5. Victoria,
6. Jackson,
7. Matagorda,
8. De Witt,
9. Gonzales,
10. Guadalupe,
11. Caldwell,
12. Lavaca,
13. Wharton,
14. Colorado,
15. Fayette,
16. Hays,
17. Travis,
18. Bastrop,
19. Williamson,
20. Lee,
21. Washington,
22. Austin,
23. Burleson,
24. Milam,
25. Bell,
26. McLennan,
27. Falls,
28. Robertson,
29. Brazos,
30. Grimes,
31. Limestone,
32. Freestone,
33. Navarro,
34. Leon,
35. Madison,
36. Anderson,
37. Cherokee,
38. Houston,
39. Trinity,
40. San Jacinto,
41. Polk,
42. Tyler,
43. Jasper,
44. Newton,
45. Rusk,
46. Nacogdoches,
47. Angelina,
48. Shelby,
49. San Augustine,
50. and Sabine.

When the permit/project file received by the modeling staff/contractors pertained to facilities outside of these regions, they were excluded from further review (discarded), and when the permit file was for a facility within the area of interest, the permit file continued to step 2. From this point forward, "files" and "permit file" will be synonymous with "project file", and "modeling staff" will be synonymous with "staff", which for these purposes includes the "contractors."

2. Changes since 1996?

The second step required staff to verify that changes occurred in NOx and/or VOC since 1996. The point source emission inventory that staff started with is actually from 1997, however, permits issued in 1996 may not take affect until 1997 or later. Therefore, to ensure that significant changes were identified, staff reviewed files back to 1996. When no permit activity occurred in 1996 or staff could not locate documents in the file for that year, staff would review earlier (pre 1996) documents until baseline documents (representations of the permitted emission levels prior to 1996) were discovered.

Staff examined documents and information available in the permit file, e.g., Maximum Allowable Emission Rate tables (MAERT), Tables 1(a), and netting tables. The MAERT is issued to the owner of the permit with the final permit allowables, which may differ from the emissions proposed by the applicant on a Table 1(a). The Table 1(a) is part of the permit application package that the owner of the source submits to the commission when requesting a new permit or a change to an existing permit. In addition to emission rates, the Table 1(a) also contains the stack parameters of the EPN that are required by the CAMx model. A netting table is submitted with a permit application if there is an increase in emissions of more than 5 TPY (tons per year) in a non-attainment area, or more than 40 TPY in an attainment area. The netting table summarizes the difference between actual emissions and the proposed maximum allowable emissions for every EPN ever modified across the entire facility (TNRCC account) during the "contemporaneous period". If available, a netting table can be used to determine if overall changes at a facility warrant further investigation of the file.

In the absence of a netting table, to determine whether a change in emissions has or may occur between 1996 and 2007, staff reviewed the file for other available information. Staff typically compared MAERTs and Table 1(a)s for successive years. When available, MAERTs were always given higher priority/validity.

If no emission changes occurred in the EPN's emission rate after 1996, the file was excluded from further review -- "discarded". If a change in emissions was noted, the file continued to step 3.

3. Clearly Operational since 1997?

Since 1997 is the chosen baseline year, there is the ambiguity about EPNs that began operations during 1997. If the EPN operated at any time during 1997, the emissions from that EPN should have been reported and included in the 1997 point source emissions inventory (EI). Therefore, staff checked whether or not it was clear that the EPN was in operation during 1997. If the EPN obviously began operation after 1997, the file proceeded to step 6; otherwise, the file proceeded to step 4.

4. Included in 1997 EI?

If an EPN began operating prior to 12/31/97, then the EPN should appear in the 1997 EI. Staff checked

whether the source was included in the 1997 EI. If the EPN was not included in the 1997 EI, then it was assumed to be a new source, and the process proceeded to step 5 on the chart; otherwise, the flow of the process proceeded to step 6.

5. *Mark as a New Source*

When the EPN was not found in the 1997 EI, it was marked as a new source. After the file was marked as such, it continued to step 6. A caveat should be noted here: EPNs are allowed to be renamed from one year to the next. Most facilities rarely rename EPNs, since it confuses their own accounting, but occasionally a facility chooses to rename EPNs. When renaming possibly occurred, staff reviewed all EPNs from that permit to determine the new naming scheme used. When the new naming scheme was not discernable, staff consulted the permit engineer or the environmental manager of the facility for clarification.

6. *Significant Change in any EPN's Emission Rate?*

Staff then determined whether any individual EPN's NOx or VOC emissions change by more than either 5 lb/hr or 25 tons per year (TPY), or if CO emissions change by 500TPY. These thresholds were chosen, because modeling experience indicates that these emission rates may be significant. If there were no significant changes (less than the above thresholds) in the emissions, the permit file was excluded from further review -- discarded.

7. *Within an Attainment Area?*

If the file is for a facility located in an attainment area, the process proceeded to step 9; while, the process continued to step 8 when the source was in a non-attainment area. Knowing this helped the staff determine the type of "change" tables to look for in the file.

8. *Note the Nonattainment Netting Tables*

The file was searched for a netting table. The netting table typically provides key information about emission changes at a facility. If nonattainment new source review was triggered (project proposes greater than 5 TPY increase), staff should be able to locate within the file TNRCC Tables 1N and/or 2N and/or 3N, or their equivalent. When no netting table was available, a permit engineer was consulted about past changes at the facility or other documents in hte file were reviewed. When a netting table was found, staff investigated the changes (increases, decreases, unit shutdowns) and proceeded to step 10.

9. *Note the PSD Netting Tables*

If the facility was located in an attainment county, the file was searched for a Prevention of Significant Deterioration (PSD) netting table. If PSD was triggered (project proposes greater than 40 TPY increase), staff should be able to locate within the file EPA/TNRCC Tables PSD-1 and/or PSD-2, or their equivalent. When no netting table was available, a permit engineer was consulted about past changes at the facility or other documents in the file were reviewed. When a netting table was found, staff investigated the changes (increases, decreases, unit shutdowns) and proceeded to step 10.

10. *Prepare for Data Entry*

The data was prepared for data entry by making photocopies of the appropriate Tables 1(a), MAERTs, and any other information used to determine that data entry was necessary. The EPNs that increased or decreased by at least the significant amount (5 lb/hr or 25 TPY of NOx or VOC), or were new sources since 1997, were highlighted on the photocopy, and then the photocopies passed on to step 11.

11. *New Source?*

The files and photocopies were examined to determine if the sources/EPNs with significant emission rate changes were new or existing sources. New sources were defined as those sources that started operation after 1997 and do not appear in the 1997 EI. When the source was determined to be a new source, it was entered into the New Source spreadsheet as described in step 13. When the source was determined to be an existing source and was contained in the 1997 EI, it was entered into the Update spreadsheet as described in step 12.

12. *Enter Data into Update spreadsheet*

Existing sources that were modified since 1997 were entered into the Update spreadsheet; this spreadsheet was eventually converted in "control packets" for modifying the existing modeling inventory. Each EPN "updated" can be classified as either a "shutdown", an "increase", or a "decrease". The netting tables were very useful in determining the update status of EPNs. The netting tables provide a project date (when the change will or has taken place), the permit number, the EPN, the actual emissions rate (TPY) prior to the project, new allowable emissions rate (TPY) after the project, the change (plus or minus) in emissions, and the creditable change. The staff member entering the data into the Update spreadsheet looked for the highlighted entries that the reviewer noted, checked the 1997 EI to verify that the EPN existed in 1997, and added entries into the new columns of the 1997 modeling EI: "old emissions" and "new emissions".

Since it is not preferred to directly compare actual emissions to allowable emissions to determine a quantifiable change, as provided by the netting tables, two methods were used for "updating" emissions. Grandfathered sources do not have permit allowable emission rates, because they do not have permits. Therefore, when "N/A" or a blank was found in the netting table for Permit Number, staff assumed that it must be a grandfathered source. In this case, because permitted allowable emissions did not previously exist, staff resorted to using the actual emissions for that EPN, as the entry for "old emissions". The allowable emissions after the activity (project) were entered in the "new emissions" column.

For those EPNs on the netting tables requiring "update" that did have a permit number associated with them, staff searched the permit files for the permitted allowable emissions (on a MAERT) prior to 1997, and staff also searched for the most current permitted allowable emissions. The permitted allowable emission rate prior to 1997 was entered into the "old emissions" column, and the current allowable emission rate was entered into the "new emissions" column. A calculated column of the spreadsheet, called the "control factor", divided the "new emissions" by the "old emissions." This control factor would then be used to modify ("control") the existing actual emissions in the 1997 modeling EI.

For example, say the NOx emissions for EPN BLR-1 were 100 TPY on a 1995 MAERT, and low-NOx burners were retrofit to this boiler that brought its NOx emissions down to 40 TPY, as noted on a 1999 MAERT. The PSD-2 netting table for the facility might be claiming the actual emissions as 80 TPY (operating at 80 percent of its allowable rate), and since the new allowable is 40 TPY, the facility will claim an 80-40=40 TPY decrease. Yet as modelers, who are unsure of the actual emission rate that will be

reported in the future, we modeled the difference in the allowables. Hence, for this BLR-1 example, staff would enter 100 as the old allowable and 40 as the new allowable. The spreadsheet would calculate a control factor of a 40/100=0.4. This record of the spreadsheet would then be converted to a control factor file for modeling which would multiply the 1997 actual reported NOx emission rate for EPN BLR-1 at that facility by 0.4.

A "shutdown" is a unit that has ceased operations and will have zero emissions after 1997. Hence, a shutdown source will have a "control factor" of 0.0 since its new allowable is zero. An "increase" occurred at an EPN when the current allowable is greater than the 1997 emission rate. Hence, a unit that has experienced an increase in allowable emissions since 1997 will have a control factor greater than 1.0. A "decrease" occurred at an EPN when the current allowable is less than the 1997 allowable. Hence, a unit that has experienced a decrease in emissions since 1997 will have a control factor less than 1.0. The control factor file will be used in a CAMx model pre-processor program to adjust the emission rates of sources contained in the 1997 point source inventory to reflect the changes made in the permits.

13. *Enter Data into New Sources spreadsheet*

Sources (EPNs) that were not in the 1997 EI are "New Sources". These were entered into a separate spreadsheet, the New Sources spreadsheet. The New Sources spreadsheet was then converted to a formatted text file for input into a CAMx model pre-processor program. The fields entered into the new source spreadsheet include parameters from the Table 1(a) described above in step 2 and include:

- Name of the plant, permit number and TNRCC account number;
- Stack designations such as the EPN, and Facility Identification Numbers (FIN);
- AIRS (Aerometric Information Retrieval System) identifiers for fips, plant, stack, and point;
- Location of the source in UTM (Universal Transverse Mercator) coordinates and corresponding UTM zone;
- Stack parameters, such as height, diameter, exit temperature and velocity;
- Proposed MAERT pollutant emission rates for each pollutant listed on a MAERT; and
- SCC and SIC codes either found in permit files or based on EPA references.

Quality Assurance Procedure

After data was entered into its respective spreadsheet, the permit file folders and spreadsheets were given to other staff for a second round of checks. TNRCC modeling staff review the folder and spreadsheet for proper screening and data entry. It's important that a new set of eyes looks at each folder and the data entered. Notes were taken regarding results gleaned from the file folders and data entered into spreadsheets was highlighted on MAERTs, Tables 1(a), and Netting Tables. The work of the QA staff was to follow the flowchart described above and make sure that nothing was entered into spreadsheets that should not have been entered, that everything that should have been entered on spreadsheets was accomplished, and check each entry in the spreadsheets for accuracy by comparing to documents in file or conversations with permit engineers.

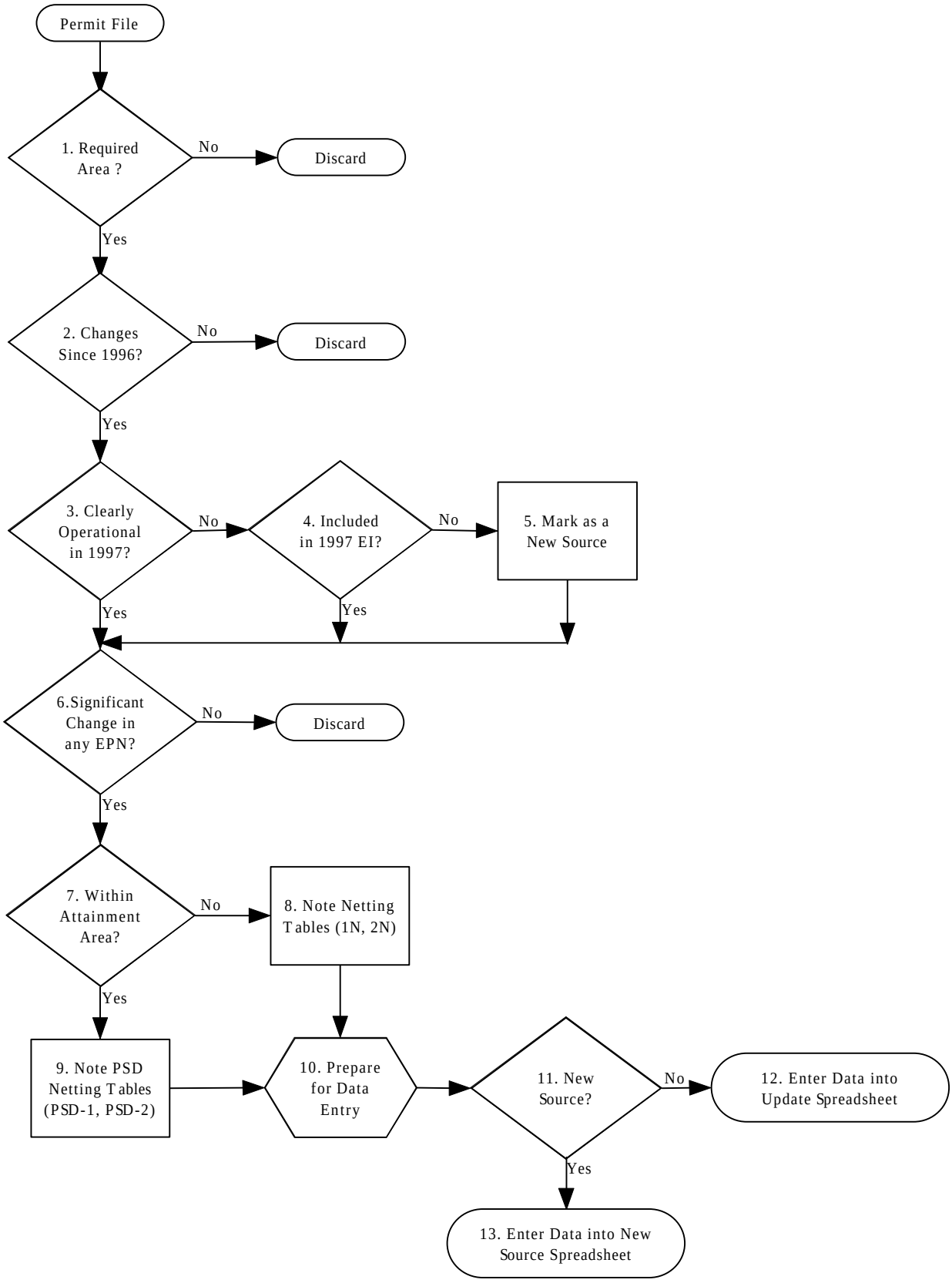

Figure H-1. Project Flow Chart

Table H-1. New Sources and Updates Affecting Point Source Growth				
TNRCC Account Number	**Permit Number**	**Company Name**	**County**	**SIC**
AA0108T	42086	LG&E Power	Anderson	4911
BC0082T	41437	Gentex and Calpine Corp	Bastrop	4911
BF0234R	41606	Duke Energy	Bell	4911
BL0002S	35735	Amoco Chemical	Brazoria	2869
BL0021O	735B	BASF Corporation	Brazoria	2869
BL0021O	9513A	BASF Corporation	Brazoria	2869
BL0038U	39171	Solutia, Inc.	Brazoria	2869
BL0082R	2008	Dow Chemical	Brazoria	2911
BL0082R	20432	Dow Chemical	Brazoria	2911
BL0083R	41941	Coastal Power	Bastrop	4911
BL0662F	31914	Sweeney Cogeneration	Brazoria	4911
BL0687A	35978	Silica Products	Brazoria	2819
CB0028T	6141A	Union Carbide	Calhoun	2869
CB0028T	38481	Union Carbide	Calhoun	2869
CB0028T	43609	Union Carbide	Calhoun	2869
CB0038Q	40157	Formosa Plastics	Calhoun	2821
CI0005A	3956B	Koch Petroleum Group	Chambers	2911
CI0008R	8707	Enterprise Products	Chambers	1321
CI0016S	2035A	Bayer Corporation	Chambers	2865
CI0016S	32678	Bayer Corporation	Chambers	2869
CI0016S	32835	Bayer Corporation	Chambers	2869
CI0016S	35148	Bayer Corporation	Chambers	2869
CI0022A	5452	Warren Petroleum	Chambers	1321
CI0148A	33987	El Dorado Nitrogren	Chambers	TBD
FG0595L	43965	Avista	Fort Bend	4911
FI0129W	41249	Freestone Power Project	Freestone	4911
GB0005J	1677	StanTrans, Inc.	Galveston	TBD
GB0055R	22433	Marathon Ashland	Galveston	2911
GB0060B	1272A	Sterling Chemicals	Galveston	2869
GB0073P	1122A	Valero Refining	Galveston	2911

Table H-1. New Sources and Updates Affecting Point Source Growth				
TNRCC Account Number	Permit Number	Company Name	County	SIC
GB0076J	2958A	Union Carbide Corp	Galveston	2869
GB0076J	6733	Union Carbide Corp	Galveston	2869
GB0325L	20250	Praxair, Inc	Galveston	2813
GK0077F	37391	Tenaska Frontier Generation Station	Grimes	4911
GL0146A	40867	Rio Nogales Power Project	Guadalupe	4911
HG0028R	38659	Panda Guadalupe Power	Guadalupe	4911
HG0028R	42623	Anchor Glass Container Corporation	Harris	TBD
HG0126Q	264	Celanese	Harris	2869
HG0216Q	38296	Celanese	Harris	2869
HG0228H	3452	Exxon	Harris	2869
HG0229H	3452	Exxon	Harris	2869
HG0232Q	9163	Exxon USA	Harris	2911
HG0232Q	28697	Exxon Company	Harris	2911
HG0232Q	40394	Exxon USA	Harris	2911
HG0460B	7264	Lubrizol Corporation	Harris	2869
HG0562P	19806	Texas Petrochemicals	Harris	2869
HG0659W	3179	Shell Chemical	Harris	2865
HG0659W	21262	Shell Oil	Harris	2911
HG0659W	37206	Shell Oil Company	Harris	2911
HG1065E	9092	Kaneka Texas Corporation	Harris	2821
HG1174V	9241A	Cogen Lyondell	Harris	4931
HG3767A	42213	EniChem Elastomers Americas	Harris	2822
HG9954	32263	Calpine Corporation	Harris	4911
HK0108C	40040	Hays Energy Project	Hays	4911
HX2690V	42179	Calpine Construction Finance	Harris	4911
JE0005H	36644	Ethylene Cracker & Associated Facilities	Jefferson	2911
JE0062	18838	Mobil Chemical	Jefferson	2869
JE0067I	19566	Mobil Chemical	Jefferson	2869
JE0067I	20862	Mobil Chemical	Jefferson	2911
JE0067I	40699	Mobil Chemical	Jefferson	2911

Table H-1. New Sources and Updates Affecting Point Source Growth				
TNRCC Account Number	**Permit Number**	**Company Name**	**County**	**SIC**
LH0232T	44175	Cedar Power Partners	Liberty	4911
MQ0625A	44174	MC Energy Partners	Montgomery	4911
NC0056N	43890	Cottonwood Energy Company	Newton	4911
NE0112G	38754	Valero Refining	Nueces	2911
NE0122D	9516	Koch Petroleum Group	Nueces	2911
OC0004P	22508	Bayer Corporation	Orange	2869
OC0007J	40496	El Du Pont de Nemours	Orange	2869
OC0363H	36889	Reliant Energy Power Generation	Orange	4911
RL0171	40039	Tenaska Gateway Partners	Rusk	4911

Table H-2. Projects not Meeting Screening Criteria

Permit Number	TNRCC Account Number	Company Name	County	SIC	Reason for discard
7596A	BL0021O	BASF Corporation	Brazoria	2869	No changes in emissions since 1997; looked through several volumes to confirm this
8372	BL0038U	Monsanto	Brazoria	2869	No significant changes in emissions
5687A	BL0042G	Phillips 66	Brazoria	2911	All sources in 1997 inventory
22690	BL0042G	Phillips Petroleum	Brazoria	2911	No differences in emissions between 1996 Table 1a and 1998 MAERT
2341	BL0048R	Schenectady, International	Brazoria	2869	No significant changes in emissions since 1995
3434	BL0082R	Dow Chemical	Brazoria	2869	No significant changes in emissions
4031	BL0082R	Dow Chemical	Brazoria	2911	No emissions changes since 1995
32274	BL0626U	Air Liquide America	Brazoria	TBD	Not a significant source
7699	CB0038Q	Formosa Plastics	Corpus Christi	2911	No changes in emissions since 1993
19166	CB0038Q	Formosa Plastics	Calhoun	2821	No changes between 1995 and 1999 MAERTs
19168	CB0038Q	Formosa Plastics	Calhoun	2821	No differences in emissions between 1997 MAERT and 1999 MAERT
19198	CB0038Q	Formosa Plastics	Calhoun	2821	No significant change
19199	CB0038Q	Formosa Plastics	Calhoun	2821	Changes since 1996, but they aren't significant
19200	CB0038Q	Formosa Plastics	Calhoun	2821	No permitting activity since 1993
19871	CB0038Q	Formosa Plastics	Calhoun	2821	No significant changes in emissions between 1996 and 2000
20203	CB0038Q	Formosa Plastics	Calhoun	2821	1996 and 1997 MAERT show no significant differences
25738	CD0009B	Silas Ray Power	Cameron	4911	Outside of area
6798	CI0008R	Enterprise Products	Chambers	1321	No changes in emissions since 1996
8418	CI0008R	Enterprise Products	Chambers	1321	New sources already in 1997 EI
20459	CI0008R	Enterprise Products	Chambers	1321	No permitting activity since 1995
4005	FG0053G	Champion Technologies	Fort Bend	TBD	Does not meet criteria. Not a significant source
32475	FG0494S	Great Western Publishing	Fort Bend	2752	Plant shut down per letter from company
68052	FI0105N	Compressor station in Freestone County	Nueces	TBD	No significant change
8978	GB0001R	TBD	Galveston	TBD	No significant changes in emissions

Table H-2. Projects not Meeting Screening Criteria

Permit Number	TNRCC Account Number	Company Name	County	SIC	Reason for discard
2612	GB0004L	Amoco Oil Company	Galveston	2911	No significant changes in emissions since 1995
5260B	GB0060B	Sterling Chemicals, Inc	Galveston	2869	No changes in emissions since 1996; one boiler shut down in 1996 - change reflected in EI
17439	GB0067K	Sea Lion Technology	Galveston	TBD	Not a significant change
436	GB0076J	BASF Corporation	Galveston	2869	Only change in emissions is an olefin flare, which is only used a couple of hours a year.
6355	GB0076J	Union Carbide Corp	Galveston	2869	Not a significant change of NOx or VOC
25034	GB0076J	Union Carbide	Galveston	2869	All sources in 1997 inventory
3284	GB0077H	Union Carbide Corp	Galveston	2869	Does not meet criteria. No significant changes since 1995, Not significant sources
21878	HG0010N	Air Products	Harris	2813	No changes in emissions since 1997
105	HG0011L	Air Products	Harris	2869	All sources in 1997 inventory
27773	HG0011L	Air Products Incorporated	Harris	2869	Nothing new in 1997 EI
8904	HG0030H	Anheuser Busch, Inc.	Harris	2082	No changes in PWR 1-3, and changes in PWR 4-6 amount to 180-136 tpy, divided by 3 is less than significant for 3 boilers.
2935	HG0033G	Equistar Chemicals	Harris	2869	No significant changes in emissions since 1997
2487	HG0037Q	Akzo Chemicals	Harris	2819	No changes in emissions since 1997
38484	HG0100N	Air Products	Harris	TBD	Turbines not being built as proposed
31178	HG0126Q	Hoechst Celanese Chemical Group	Harris	2869	Not a significant change
462	HG0127O	Celanese Ltd.	Harris	2869	Not a significant change
5953	HG0175D	Crown Central Petroleum	Harris	2911	No changes in emissions since 1995
26891	HG0175D	Crown Central Petroleum	Harris	2911	No changes in emissions since 1995
3855B	HG0193B	The Geon Company	Harris	2869	Last amended in 1996
9910	HG0228H	Exxon Chemical Company	Harris	2869	No changes in emissions since 1995 according to PE; all shutdowns reflected in 1997 EI
28441	HG0229F	Exxon Chemical Company	Harris	2869	All sources in 1997 inventory or are not significant
36476	HG0229F	Exxon Chemical Company	Harris	2869	Not a significant change
1384	HG0232Q	Exxon USA	Harris	2911	1996 and 1999 emissions are equal

Table H-2. Projects not Meeting Screening Criteria

Permit Number	TNRCC Account Number	Company Name	County	SIC	Reason for discard
34139	HG0232Q	Exxon USA	Harris	2911	Not a significant change
1504A	HG0310V	Chevron USA	Harris	2869	No significant changes in emissions since 1997
9423	HG0323M	Himont USA/Montell	Harris	2821	No significant changes in emissions; checked EI and MAERTs
9496	HG0323M	Himont/Montell USA	Harris	2821	Most recent changes in emissions occurred in 1987
19546	HG0323M	Montell USA/Himont	Harris	2821	Most recent changes in emissions occurred in 1987; all sources already in 1997 EI
1078	HG0403N	Intercontinental Terminals	Harris	4226	No changes in emissions since 1997
6271	HG0461W	Elf Atochem	Harris	2869	No significant changes between 1997 MAERT and 1998 MAERT
4209A	HG0534U	Agrifos Fertilizer	Harris	2874	No significant changes in emissions
1257A	HG0632T	Rohm and Haas Texas	Harris	2869	No significant changes in emissions between 1996 and 1998 MAERTS
8838	HG0632T	Rohm & Haas Texas, Inc	Harris	2869	No changes in emissions; one shutdown in 1993 reflected in EI
24874	HG0659W	Shell Oil	Harris	2911	No changes in emissions since 1995
4904	HG0665E	Solvay Polymers	Harris	2821	Permit #4904 now under permit #28351- Already in 1997 Inventory
28351	HG0665E	Solvay Polymers	Harris	2821	Already in 1997 Inventory
190	HG0674D	Donohue Industries	Harris	2621	Permit #190 now under permit #42834. All sources in 1997 Inventory
216	HG0674D	Donohue Industries	Harris	TBD	No changes in emissions since 1997
42834	HG0674D	Donohue Industries	Harris	2621	All sources in 1997 Inventory
24990	HG0762F	United States Gypsum Company	Harris	TBD	No significant changes in emissions
5572B	HG0825G	Aristech Chemical	Harris	2821	No changes in emissions since 1997
4673B	HG1028K	The GEON Company	Harris	2821	Nothing on MAERT meets criteria
18507	HG1065E	Kaneka Texas	Harris	2821	No new changes since 1995
8199A	HG1249P	Aristech Chemical	Harris	2869	All sources in 1997 inventory
17692	HG1478V	General Electric Packaged Power	Harris	3511	No significant changes in emissions since 1994
3346	HG1575W	Lyondell Chemical	Harris	2869	No significant changes in emissions and no new sources

Table H-2. Projects not Meeting Screening Criteria

Permit Number	TNRCC Account Number	Company Name	County	SIC	Reason for discard
5252	HG3307M	Nova Chemicals	Harris	2865	No changes in emissions since 1994
20042	HG3604D	Global Octanes	Harris	2869	No MAERT or Table 1a since 1996, so no apparent changes in emissions caps
19074	HG7698J	Noltex	Harris	TBD	Not a significant change
22559	HH0019H	Carbon Reactivation Facility	Harrison	2869	Project never completed
8539	HH0042M	Eastman Chemical	Harrison	2869	Outside of area
9597	HX0029W	MEMC Pasadena Inc.	Harris	TBD	No significant increase
34401	HX1525V	Kuraray America	Harris	2821	Negligible change in emissions
6825A	JE0042B	Clark Refining and Marketing	Jefferson	2911	No changes in emissions since 1997
7799	JE0065M	Mobil Chemical	Jefferson	2869	No changes between 1996 and 1999 MAERTs
41953	KB0176S	Cobisa Forney	Kaufman	4911	Outside of area
41472	KB0176W	Duke Energy	Kaufman	4911	Outside of area
6192	LH0026B	Louisiana Pacific Corp	Liberty	2436	No significant changes in emissions; checked EI and MAERTs
4682B	NE0051B	Oxy Vinyl's	Nueces	2869	No significant changes in emissions
8373	NE0112G	Valero Refining	Nueces	2911	No significant changes in emissions since 1994
20740	NE0112G	Valero Refining	Nueces	2911	No significant changes in emissions since 1996
8803A	NE0122D	Koch Petroleum Group	Nueces	2911	Last permitting activity was in 1994
9398	NE0122D	Koch Petroleum Group	Nueces	2911	No changes in emissions since 1994
8778A	NE0192F	CITGO Refininig & Chemicals	Nueces	2869	No significant changes in emissions between 1997 MAERT and 1999 MAERT; all sources verified in EI
28718	PC0160G	Lynn Looney Auto Body	Parker	7532	Outside of area

Table H-3. Projects Still Under Investigation as of August 2000				
Permit Number	**TNRCC Account Number**	**Company Name**	**County**	**SIC**
40710	BL0021O	BASF Corporation	Brazoria	2969
5682A	BL0042G	Phillips 66	Brazoria	2911
46054	CB0038O	TBD	Calhoun	TBD
4831	CI0009P	Exxon Chemical	Chambers	2821
41996	CI0184T	TBD	Chambers	2869
39142	GB0073P	Valero Refining	Nueces	2911
9402	HG0037Q	Akzo Chemicals	Harris	2819
59155	HG0100N	Air Products	Harris	TBD
18277	HG0232Q	Mobil Corporation	Harris	2869
18287	HG0232Q	Exxon USA	Harris	2869
5783	HG0345C	Houston Fuel Oil	Harris	2874
2165	HG0632T	Rohm and Haas Texas	Harris	2869
3214	HG0659W	Shell Oil Company	Harris	2911
9276	HG1495V	AES Deepwater	Harris	TBD
18103	HG1575W	Lyondell Chemical	Harris	2869
28590	HG1972I	Patterson Truck Line	Harris	1382
26098	HG7472O	D & D Collision	Harris	TBD
40799	HX2290S	Initial DSI Transport	Harris	TBD
41775	HX2342B	Reliant Energy	Harris	4911
43178	JC0003R	Westvaco Texas	Jasper	4911
20040	JE0039N	Goodyear Tire and Rubber	Jefferson	2822
18568	JE0508W	Chevron Chemical Company	Jefferson	TBD
6308	NE0120	Koch Petroleum Group	Nueces	2911
7035	NE0120H	Koch Petroleum Group	Nueces	2911
19331	NE0122D	Koch Petroleum Group	Nueces	2911
68729	NE0192F	TBD	Nueces	TBD
9343A	NE0195W	Trifinery	Nueces	TBD
41802	no acct #	Harris Energy Facility	Harris	4911
44277	no acct #	Reliant Energy	Galveston	4911
44278	no acct #	Reliant Energy	Harris	4911

Table H-3. Projects Still Under Investigation as of August 2000				
Permit Number	**TNRCC Account Number**	**Company Name**	**County**	**SIC**
583A	OC0012Q	Chevron Chemical Company	Orange	2821
9403B	OC0020R	Engineered Carbons	Orange	TBD
7553	TA0512	City of Fort Worth	Tarrant	TBD
2163	TBD	TBD	Harris	TBD
31913	TBD	Davis Ironworks	McLennan	TBD
42905	TBD	Texas Industrial Power	Chambers	4911
TBD	TBD	Texas Industrial Power	Chambers	4911

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
48001	4911	20300203	261.5710	3524.2890	15	53.34	5.64	361	17	42101	1.15	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG1	GTG/HRSG1	42086	175	18.5	56	190	96	412.00
48001	4911	20300203	261.5710	3524.2890	15	53.34	5.64	361	17	42603	0.85	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG1	GTG/HRSG1	42086	175	18.5	56	190	71	311.00
48001	4911	20300203	261.5710	3524.2890	15	53.34	5.64	361	17	43104	0.11	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG1	GTG/HRSG1	42086	175	18.5	56	190	9.3	40.30
48001	4911	20300203	261.5710	3524.3380	15	53.34	5.64	361	17	42101	1.15	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG2	GTG/HRSG2	42086	175	18.5	56	190	96	412.00
48001	4911	20300203	261.5710	3524.3380	15	53.34	5.64	361	17	42603	0.85	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG2	GTG/HRSG2	42086	175	18.5	56	190	71	311.00
48001	4911	20300203	261.5710	3524.3380	15	53.34	5.64	361	17	43104	0.11	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG2	GTG/HRSG2	42086	175	18.5	56	190	9.3	40.30
48001	4911	20300203	261.5710	3524.4387	15	53.34	5.64	361	17	42101	1.15	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG3	GTG/HRSG3	42086	175	18.5	56	190	96	412.00
48001	4911	20300203	261.5710	3524.4387	15	53.34	5.64	361	17	42603	0.85	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG3	GTG/HRSG3	42086	175	18.5	56	190	71	311.00
48001	4911	20300203	261.5710	3524.4387	15	53.34	5.64	361	17	43104	0.11	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG3	GTG/HRSG3	42086	175	18.5	56	190	9.3	40.30
48001	4911	20300203	261.5710	3524.4594	15	53.34	5.64	361	17	42101	1.15	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG4	GTG/HRSG4	42086	175	18.5	56	190	96	412.00
48001	4911	20300203	261.5710	3524.4594	15	53.34	5.64	361	17	42603	0.85	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG4	GTG/HRSG4	42086	175	18.5	56	190	71	311.00
48001	4911	20300203	261.5710	3524.4594	15	53.34	5.64	361	17	43104	0.11	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG4	GTG/HRSG4	42086	175	18.5	56	190	9.3	40.30
48001	4911	20300203	261.5710	3524.6430	15	53.34	5.64	361	17	42101	1.15	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG5	GTG/HRSG5	42086	175	18.5	56	190	96	412.00
48001	4911	20300203	261.5710	3524.6430	15	53.34	5.64	361	17	42603	0.85	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG5	GTG/HRSG5	42086	175	18.5	56	190	71	311.00
48001	4911	20300203	261.5710	3524.6430	15	53.34	5.64	361	17	43104	0.11	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG5	GTG/HRSG5	42086	175	18.5	56	190	9.3	40.30
48001	4911	20300203	261.5710	3524.6920	15	53.34	5.64	361	17	42101	1.15	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG6	GTG/HRSG6	42086	175	18.5	56	190	96	412.00
48001	4911	20300203	261.5710	3524.6920	15	53.34	5.64	361	17	42603	0.85	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG6	GTG/HRSG6	42086	175	18.5	56	190	71	311.00
48001	4911	20300203	261.5710	3524.6920	15	53.34	5.64	361	17	43104	0.11	LG&E Power, Inc. Palestine Energy Facility	AA0108T	GTG/HRSG6	GTG/HRSG6	42086	175	18.5	56	190	9.3	40.30
48021	4911	20300203	666.6010	3336.4270	15	45.72	5.64	350	13	42101	1.82	Gentex and Calpine Corp.	BC0082T	CG-1	CG-1	41437	150	18.5	43.4	171	151.4	350.70
48021	4911	20300203	666.6010	3336.4270	15	45.72	5.64	350	13	42603	0.75	Gentex and Calpine	BC0082T	CG-1	CG-1	41437	150	18.5	43.4	171	62.7	146.00

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
												Corp.										
48021	4911	20300203	666.6010	3336.4270	14	45.72	5.64	350	13	43104	0.12	Gentex and Calpine Corp.	BC0082T	CG-1	CG-1	41437	150	18.5	43.4	171	9.7	40.60
48021	4911	20300203	666.6010	3336.4270	15	45.72	5.64	350	13	42101	1.82	Gentex and Calpine Corp.	BC0082T	CG-2	CG-2	41437	150	18.5	43.4	171	151.4	350.70
48021	4911	20300203	666.6010	3336.4270	15	45.72	5.64	350	13	42603	0.75	Gentex and Calpine Corp.	BC0082T	CG-2	CG-2	41437	150	18.5	43.4	171	62.7	146.00
48021	4911	20300203	666.6010	3336.4270	15	45.72	5.64	350	13	43104	0.12	Gentex and Calpine Corp.	BC0082T	CG-2	CG-2	41437	150	18.5	43.4	171	9.7	40.60
48021	4911	20300203	639.6270	3335.7380	14	36.58	5.79	366	19	42101	0.84	Bastrop Clean Energy Center	BC0083R	CTG-1A & HRSG-1A	HRSG-1A	41941	120	19	61.6	200	70	202.64
48021	4911	20300203	639.6270	3335.7380	14	36.58	5.79	366	19	42603	1.10	Bastrop Clean Energy Center	BC0083R	CTG-1A & HRSG-1A	HRSG-1A	41941	120	19	61.6	200	92	309.28
48021	4911	20300203	639.6270	3335.7380	14	36.58	5.79	366	19	43104	0.06	Bastrop Clean Energy Center	BC0083R	CTG-1A & HRSG-1A	HRSG-1A	41941	120	19	61.6	200	5	15.79
48021	4911	20300203	639.6080	3335.7060	14	36.58	5.79	366	19	42101	0.84	Bastrop Clean Energy Center	BC0083R	CTG-1B & HRSG-1B	HRSG-1B	41941	120	19	61.6	200	70	202.64
48021	4911	20300203	639.6080	3335.7060	14	36.58	5.79	366	19	42603	1.10	Bastrop Clean Energy Center	BC0083R	CTG-1B & HRSG-1B	HRSG-1B	41941	120	19	61.6	200	92	309.28
48021	4911	20300203	639.6080	3335.7060	14	36.58	5.79	366	19	43104	0.06	Bastrop Clean Energy Center	BC0083R	CTG-1B & HRSG-1B	HRSG-1B	41941	120	19	61.6	200	5	15.79
48027	4911	20300203	660.6040	3436.7420	14	47.24	5.49	878	47	42101	0.83	Duke Energy Bell L.P.	BF0234R	HRSG-1	GE-7241FA	41606	155	18	153.6	1121	69	272.00
48027	4911	20300203	660.6040	3436.7420	14	47.24	5.49	878	47	42603	1.02	Duke Energy Bell L.P.	BF0234R	HRSG-1	GE-7241FA	41606	155	18	153.6	1121	85	254.00
48027	4911	20300203	660.6040	3436.7420	14	47.24	5.49	878	47	43104	0.04	Duke Energy Bell L.P.	BF0234R	HRSG-1	GE-7241FA	41606	155	18	153.6	1121	3	12.30
48027	4911	20300203	660.6780	3436.7900	14	47.24	5.49	878	47	42101	0.83	Duke Energy Bell L.P.	BF0234R	HRSG-2	GE-7241FA	41606	155	18	153.6	1121	69	272.00
48027	4911	20300203	660.6780	3436.7900	14	47.24	5.49	878	47	42603	1.02	Duke Energy Bell L.P.	BF0234R	HRSG-2	GE-7241FA	41606	155	18	153.6	1121	85	254.00
48027	4911	20300203	660.6780	3436.7900	14	47.24	5.49	878	47	43104	0.04	Duke Energy Bell L.P.	BF0234R	HRSG-2	GE-7241FA	41606	155	18	153.6	1121	3	12.30
48039	2869	TBD	287.0410	3236.4110	15	53.34	0.61	533	1	42101	2.83	Amoco Chemical	BL0002S	P4FLARE	P4FLARE	35735	175	2	3	500	236	58.60
48039	2869	TBD	287.0410	3236.4110	15	53.34	0.61	533	1	42603	0.55	Amoco Chemical	BL0002S	P4FLARE	P4FLARE	35735	175	2	3	500	46	11.50
48039	2869	TBD	287.0410	3236.4110	15	53.34	0.61	533	1	43104	4.13	Amoco Chemical	BL0002S	P4FLARE	P4FLARE	35735	175	2	3	500	344	51.00
48039	2869	TBD	286.8850	3236.2390	15	9.14	2.74	300	0	43104	0.12	Amoco Chemical	BL0002S	P4VALVEFUG	P4VALVEFUG	35735	30	9	0.001	80	9.74	42.65
48039	2869	TBD	265.6000	3210.5500	15	30.48	5.11	444	11	42101	0.01	BASF Corporation	BL00210	TBD	15-2-1	735B	100	16.75	35	339	0.83	313.96
48039	2869	TBD	266.7250	3209.9650	15	38.10	2.74	463	18	42101	0.80	BASF	BL0021O	TBD	STACK1	40799	125	9	59.8	374	66.6	291.90
48039	2869	TBD	266.7250	3209.9650	15	38.10	2.74	463	18	42603	1.14	BASF	BL0021O	TBD	STACK1	40799	125	9	59.8	374	95.17	416.80
48039	2869	TBD	266.7250	3209.9650	15	38.10	2.74	463	18	43104	0.03	BASF	BL0021O	TBD	STACK1	40799	125	9	59.8	374	2.4	10.60
48039	2869	TBD	265.600	3210.550	15	30.48	5.11	444	11	42603	1.11	BASF Corporation	BL0021O	TBD	15-2-1	735B	100	16.75	35	339	92.57	238.82
48039	2869	TBD	265.600	3210.550	15	30.48	5.11	444	11	43104	0.19	BASF Corporation	BL0021O	TBD	15-2-1	735B	100	16.75	35	339	15.88	33.09
48039	2869	TBD	266.9650	3210.2700	15	60.96	2.13	361	9	42101	0.20	BASF Corporation	BL0021O	4-1-IN701	4-1-1	9513A	200	7	31	190	16.4	71.70
48039	2869	TBD	266.9650	3210.2700	15	60.96	2.13	361	9	42603	0.87	BASF Corporation	BL0021O	4-1-IN701	4-1-1	9513A	200	7	31	190	72.7	318.40
48039	2869	TBD	266.9650	3210.2700	15	60.96	2.13	361	9	43104	0.02	BASF Corporation	BL0021O	4-1-IN701	4-1-1	9513A	200	7	31	190	1.42	6.20
48039	2869	TBD	267.1250	3210.0870	15	57.91	2.99	511	9	42101	0.48	BASF Corporation	BL0021O	4-2-IN5500	4-2-1	9513A	190	9.8	27.9	460	39.68	173.81
48039	2869	TBD	267.1250	3210.0870	15	57.91	2.99	511	9	42603	1.15	BASF Corporation	BL0021O	4-2-IN5500	4-2-1	9513A	190	9.8	27.9	460	96.1	173.00
48039	2869	TBD	267.1250	3210.0870	15	57.91	2.99	511	9	43104	0.02	BASF Corporation	BL0021O	4-2-IN5500	4-2-1	9513A	190	9.8	27.9	460	1.7	7.40
48039	2911	TBD	232.4630	3218.2640	15	76.20	1.74	1183	49	42101	0.12	Phillips 66 Company	BL0042G	29.2-36-CS	Coker Heater A	5682A	250	5.71	161.4	1670	9.84	34.49
48039	2911	TBD	232.4630	3218.2640	15	76.20	1.74	1183	49	42603	0.18	Phillips 66 Company	BL0042G	29.2-36-CS	Coker Heater A	5682A	250	5.71	161.4	1670	14.77	51.74
48039	2911	TBD	232.4630	3218.2640	15	76.20	1.74	1183	49	43104	0.00	Phillips 66 Company	BL0042G	29.2-36-CS	Coker Heater A	5682A	250	5.71	161.4	1670	0.04	0.14
48039	2911	TBD	232.4630	3218.2640	15	76.20	1.74	1183	49	42101	0.12	Phillips 66 Company	BL0042G	29.2-36-CS	Coker Heater B	5682A	250	5.71	161.4	1670	9.84	34.49
48039	2911	TBD	232.4630	3218.2640	15	76.20	1.74	1183	49	42603	0.18	Phillips 66 Company	BL0042G	29.2-36-CS	Coker Heater B	5682A	250	5.71	161.4	1670	14.77	51.74
48039	2911	TBD	232.4630	3218.2640	15	76.20	1.74	1183	49	43104	0.00	Phillips 66 Company	BL0042G	29.2-36-CS	Coker Heater B	5682A	250	5.71	161.4	1670	0.04	0.14
48039	2911	TBD	231.9900	3218.2550	15	76.20	1.74	1183	49	42101	0.24	Phillips 66 Company	BL0042G	28.2-36-2	Incinerator Stack	5682A	250	5.71	161.4	1670	20.2	88.47
48039	2911	TBD	231.9900	3218.2550	15	76.20	1.74	1183	49	42603	0.09	Phillips 66 Company	BL0042G	28.2-36-2	Incinerator Stack	5682A	250	5.71	161.4	1670	7.45	32.62
48039	2911	TBD	231.9900	3218.2550	15	76.20	1.74	1183	49	43104	0.00	Phillips 66 Company	BL0042G	28.2-36-2	Incinerator Stack	5682A	250	5.71	161.4	1670	0.23	1.00

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
48039	2911	TBD	232.3600	3218.5650	15	76.20	1.74	1183	49	42101	0.18	Phillips 66 Company	BL0042G	29.1-36-1	Vacuum Unit Heater	5682A	250	5.71	161.4	1670	15.1	52.92
48039	2911	TBD	232.3600	3218.5650	15	76.20	1.74	1183	49	42603	0.27	Phillips 66 Company	BL0042G	29.1-36-1	Vacuum Unit Heater	5682A	250	5.71	161.4	1670	22.65	79.37
48039	2911	TBD	232.3600	3218.5650	15	76.20	1.74	1183	49	43104	0.00	Phillips 66 Company	BL0042G	29.1-36-1	Vacuum Unit Heater	5682A	250	5.71	161.4	1670	0.21	0.74
48039	2911	TBD	267.2350	3208.2160	15	22.86	0.52	344	46	42101	0.09	The Dow Chemical Company	BL0082R	D-2830	B10SV30	2008	75	1.7	150	160	7.9	15.40
48039	2911	TBD	267.2350	3208.2160	15	22.86	0.52	344	46	42603	0.23	The Dow Chemical Company	BL0082R	D-2830	B10SV30	2008	75	1.7	150	160	19.4	38.00
48039	2911	TBD	267.2350	3208.2160	15	22.86	0.52	344	46	43104	0.15	The Dow Chemical Company	BL0082R	D-2830	B10SV30	2008	75	1.7	150	160	12.4	1.10
48039	2911	TBD	271.5300	3207.9530	15	38.10	2.13	385	14	42101	0.05	The Dow Chemical Company	BL0082R	OC6L8H8	OC6S8	20432	125	7	45	234	4.37	17.17
48039	2911	TBD	271.5300	3207.9530	15	38.10	2.13	385	14	42603	0.23	The Dow Chemical Company	BL0082R	OC6L8H8	OC6S8	20432	125	7	45	234	18.95	74.40
48039	2911	TBD	271.5300	3207.9530	15	38.10	2.13	385	14	43104	0.01	The Dow Chemical Company	BL0082R	OC6L8H8	OC6S8	20432	125	7	45	234	1.17	4.58
48039	4911	TBD	232.7100	3218.8960	15	30.48	5.03	364	18	42101	0.96	Sweeney Cogeneration Facility	BL0622F	HRSG4	4	31914	100	16.5	60	195	79.6	335.10
48039	4911	TBD	232.7100	3218.8960	15	30.48	5.03	364	18	42603	2.75	Sweeney Cogeneration Facility	BL0622F	HRSG4	4	31914	100	16.5	60	195	229.1	776.80
48039	4911	TBD	232.7100	3218.8960	15	30.48	5.03	364	18	43104	0.05	Sweeney Cogeneration Facility	BL0622F	HRSG4	4	31914	100	16.5	60	195	4	4.90
48039	2819	TBD	270.5200	3210.2340	15	18.29	2.13	453	14	42101	0.07	Silica Products	BL0687A	D-1	D-1	35978	60	7	46.9	356	5.48	20.00
48039	2819	TBD	270.5200	3210.2340	15	18.29	2.13	453	14	42603	0.25	Silica Products	BL0687A	D-1	D-1	35978	60	7	46.9	356	20.99	78.02
48039	2819	TBD	270.5200	3210.2340	15	18.29	2.13	453	14	42603	0.25	Silica Products	BL0687A	D-1	D-1	35978	60	7	46.9	356	20.99	78.02
48039	2819	TBD	270.5200	3210.2340	15	18.29	2.13	453	14	43104	0.00	Silica Products	BL0687A	D-1	D-1	35978	60	7	46.9	356	0.1	0.44
48057	2869	20300203	718.0393	3155.2824	14	22.86	3.66	394	16	42101	0.64	Union Carbide Corporation	CB0028T	ESYS 1180	1180	38481	75	12	51.8	250	53.12	211.85
48057	2869	20300203	718.0393	3155.2824	14	22.86	3.66	394	16	42603	0.91	Union Carbide Corporation	CB0028T	ESYS 1180	1180	38481	75	12	51.8	250	76.12	165.28
48057	2869	20300203	718.0393	3155.2824	14	22.86	3.66	394	16	43104	0.04	Union Carbide Corporation	CB0028T	ESYS 1180	1180	38481	75	12	51.8	250	3.51	13.29
48057	2821	30101817	740.7050	3176.8050	14	6.10	3.05	300	0	43104	0.18	Formosa Plastics Corporation	CB0038Q	006	006	40157	20	10	0.001	80	15.34	67.19
48071	1321	TBD	315.6130	3303.9220	15	18.29	0.91	405	31	42101	0.07	Koch Industries	CI0015A	Turbine	T-13	3956B	60	3	102.8	270	5.86	25.65
48071	1321	TBD	315.6130	3303.9220	15	18.29	0.91	405	31	42603	0.10	Koch Industries	CI0015A	Turbine	T-13	3956B	60	3	102.8	270	8.06	35.32
48071	1321	TBD	315.6130	3303.9220	15	18.29	0.91	405	31	43104	0.00	Koch Industries	CI0015A	Turbine	T-13	3956B	60	3	102.8	270	0.17	0.73
48071	1321	TBD	315.6070	3303.918	15	18.29	0.91	405	31	42101	0.07	Koch Industries	CI0015A	Turbine	T-14	3956B	60	3	102.8	270	5.86	25.65
48071	1321	TBD	315.6070	3303.918	15	18.29	0.91	405	31	42603	0.10	Koch Industries	CI0015A	Turbine	T-14	3956B	60	3	102.8	270	8.06	35.32
48071	1321	TBD	315.6070	3303.918	15	18.29	0.91	405	31	43104	0.00	Koch Industries	CI0015A	Turbine	T-14	3956B	60	3	102.8	270	0.17	0.73
48071	2869	TBD	315.7380	3293.5400	15	22.86	1.83	433	13	42101	0.21	Bayer Corporation	CI0016S	Fv80051500	Fv80051500	2117	75	6	44.2	320	17.89	65.70
48071	2869	TBD	315.7380	3293.5400	15	22.86	1.83	433	13	42603	0.09	Bayer Corporation	CI0016S	Fv80051500	Fv80051500	2117	75	6	44.2	320	7.76	34.00
48071	2869	TBD	315.7380	3293.5400	15	22.86	1.83	433	13	43104	0.00	Bayer Corporation	CI0016S	Fv80051500	Fv80051500	2117	75	6	44.2	320	0.35	1.53
48071	2869	TBD	315.7380	3293.5400	15	22.86	1.83	433	13	42101	0.21	Bayer Corporation	CI0016S	FV80061500	FV80061500	2117	75	6	44.2	320	17.89	78.36
48071	2869	TBD	315.7380	3293.5400	15	22.86	1.83	433	13	42603	0.18	Bayer Corporation	CI0016S	FV80061500	FV80061500	2117	75	6	44.2	320	14.7	64.39
48071	2869	TBD	315.7380	3293.5400	15	22.86	1.83	433	13	43104	0.00	Bayer Corporation	CI0016S	FV80061500	FV80061500	2117	75	6	44.2	320	0.35	1.53
48071	1321	10200601	316.4100	3302.4520	15	22.86	1.83	422	7	42101	0.22	Warren Petroleum	CI0022A	Boiler 8	B-8	5452	75	6	22.9	300	18.64	81.63
48071	1321	10200601	316.4100	3302.4520	15	22.86	1.83	422	7	42603	0.15	Warren Petroleum	CI0022A	Boiler 8	B-8	5452	75	6	22.9	300	12.3	53.87
48071	1321	10200601	316.4100	3302.4520	15	22.86	1.83	422	7	43104	0.00	Warren Petroleum	CI0022A	Boiler 8	B-8	5452	75	6	22.9	300	0.28	1.25
48071	4911	TBD	316.0090	3294.7740	15	38.10	5.79	358	18	42101	2.74	Baytown Cogeneration Plant	CI0184T	CTG-1	CTG-1	41996	125	19	60	185	228	427.30
48071	4911	TBD	316.0090	3294.7740	15	38.10	5.79	358	18	42603	0.60	Baytown Cogeneration Plant	CI0184T	CTG-1	CTG-1	41996	125	19	60	185	50.1	108.10
48071	4911	TBD	316.0090	3294.7740	15	38.10	5.79	358	18	43104	0.33	Baytown Cogeneration	CI0184T	CTG-1	CTG-1	41996	125	19	60	185	27.3	43.10

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
												Plant										
48071	4911	TBD	316.0540	3294.7B2	15	38.10	5.79	358	18	42101	2.74	Baytown Cogeneration Plant	CI0184T	CTG-2	CTG-2	41996	125	19	60	185	228	427.30
48071	4911	TBD	316.0540	3294.7B2	15	38.10	5.79	358	18	42603	0.60	Baytown Cogeneration Plant	CI0184T	CTG-2	CTG-2	41996	125	19	60	185	50.1	108.10
48071	4911	TBD	316.0540	3294.7B2	15	38.10	5.79	358	18	43104	0.33	Baytown Cogeneration Plant	CI0184T	CTG-2	CTG-2	41996	125	19	60	185	27.3	43.10
48071	4911	TBD	316.09B	3294.7900	15	38.10	5.79	358	18	42101	2.74	Baytown Cogeneration Plant	CI0184T	CTG-3	CTG-3	41996	125	19	60	185	228	427.30
48071	4911	TBD	316.09B	3294.7900	15	38.10	5.79	358	18	42603	0.60	Baytown Cogeneration Plant	CI0184T	CTG-3	CTG-3	41996	125	19	60	185	50.1	108.10
48071	4911	TBD	316.09B	3294.7900	15	38.10	5.79	358	18	43104	0.33	Baytown Cogeneration Plant	CI0184T	CTG-3	CTG-3	41996	125	19	60	185	27.3	43.10
48071	4911	TBD	666.6010	3336.4270	15	45.72	5.64	350	13	42101	1.82	Calpine Corp.	CI0184T	TBD	STACK1	41996	150	18.5	43.4	171	151.4	350.70
48071	4911	TBD	666.6010	3336.4270	15	45.72	5.64	350	13	42603	0.75	Calpine Corp.	CI0184T	TBD	STACK1	41996	150	18.5	43.4	171	62.7	146.00
48071	4911	TBD	666.6010	3336.4270	15	45.72	5.64	350	13	43104	0.12	Calpine Corp.	CI0184T	TBD	STACK1	41996	150	18.5	43.4	171	9.7	40.60
48071	4911	TBD	666.5990	3336.3440	15	45.72	5.64	350	13	42101	1.82	Calpine Corp.	CI0184T	TBD	STACK2	41996	150	18.5	43.4	171	151.4	350.70
48071	4911	TBD	666.5990	3336.3440	15	45.72	5.64	350	13	42603	0.75	Calpine Corp.	CI0184T	TBD	STACK2	41996	150	18.5	43.4	171	62.7	146.00
48071	4911	TBD	666.5990	3336.3440	15	45.72	5.64	350	13	43104	0.12	Calpine Corp.	CI0184T	TBD	STACK2	41996	150	18.5	43.4	171	9.7	40.60
48071	2869	20300203	315.7380	3293.5400	15	22.86	1.83	433	13	42101	0.21	Bayer Corporation	CL0016S	FV80061500	Steam Generator #6	35148	75	6	44.2	320	17.89	78.36
48071	2869	20300203	315.7380	3293.5400	15	22.86	1.83	433	13	42603	0.18	Bayer Corporation	CL0016S	FV80061500	Steam Generator #6	35148	75	6	44.2	320	14.7	64.39
48071	2869	20300203	315.7380	3293.5400	15	22.86	1.83	433	13	43104	0.00	Bayer Corporation	CL0016S	FV80061500	Steam Generator #6	35148	75	6	44.2	320	0.35	1.53
48157	4911	TBD	245.6740	3263.0560	15	4.27	0.51	533	6	42101	0.11	Avista Power, LLC	FG0595L	EMGEN-11	EMGEN-1	43965	14	1.67	20	500	9.02	2.26
48157	4911	TBD	245.6740	3263.0560	15	4.27	0.51	533	6	42603	0.50	Avista Power, LLC	FG0595L	EMGEN-11	EMGEN-1	43965	14	1.67	20	500	41.9	10.50
48157	4911	TBD	245.6740	3263.0560	15	4.27	0.51	533	6	43104	0.04	Avista Power, LLC	FG0595L	EMGEN-11	EMGEN-1	43965	14	1.67	20	500	3.39	0.85
48157	4911	TBD	245.5870	3263.0050	15	4.27	0.20	533	9	42101	0.02	Avista Power, LLC	FG0595L	FW PUMP-1	FW PUMP-1	43965	14	0.67	30	500	2	0.50
48157	4911	TBD	245.5870	3263.0050	15	4.27	0.20	533	9	42603	0.11	Avista Power, LLC	FG0595L	FW PUMP-1	FW PUMP-1	43965	14	0.67	30	500	9.3	2.33
48157	4911	TBD	245.5870	3263.0050	15	4.27	0.20	533	9	43104	0.01	Avista Power, LLC	FG0595L	FW PUMP-1	FW PUMP-1	43965	14	0.67	30	500	0.75	0.19
48157	4911	TBD	245.6000	3263.0350	15	38.10	7.92	355	11	42101	2.10	Avista Power, LLC	FG0595L	CGT-001, DB-001	HRSG-001	43965	125	26	37.3	180	175	498.00
48157	4911	TBD	245.6000	3263.0350	15	38.10	7.92	355	11	42603	0.51	Avista Power, LLC	FG0595L	CGT-001, DB-001	HRSG-001	43965	125	26	37.3	180	42.4	143.00
48157	4911	TBD	245.6000	3263.0350	15	38.10	7.92	355	11	43104	0.35	Avista Power, LLC	FG0595L	CGT-001, DB-001	HRSG-001	43965	125	26	37.3	180	28.8	66.20
48157	4911	TBD	245.6420	3263.0350	15	38.10	7.92	355	11	42101	2.10	Avista Power, LLC	FG0595L	CGT-002, DB-002	HRSG-002	43965	125	26	37.3	180	175	498.00
48157	4911	TBD	245.6420	3263.0350	15	38.10	7.92	355	11	42603	0.51	Avista Power, LLC	FG0595L	CGT-002, DB-002	HRSG-002	43965	125	26	37.3	180	42.4	143.00
48157	4911	TBD	245.6420	3263.0350	15	38.10	7.92	355	11	43104	0.35	Avista Power, LLC	FG0595L	CGT-002, DB-002	HRSG-002	43965	125	26	37.3	180	28.8	66.20
48161	4911	20300203	773.2910	3531.8190	14	48.77	5.49	366	13	42101	1.03	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK1	41249	160	18	42.73	200	86.17	338.68
48161	4911	20300203	773.2910	3531.8190	14	48.77	5.49	366	13	42603	0.76	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK1	41249	160	18	42.73	200	63.4	252.91
48161	4911	20300203	773.2910	3531.8190	14	48.77	5.49	366	13	43104	0.03	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK1	41249	160	18	42.73	200	2.8	10.75
48161	4911	20300203	773.2910	3531.7740	14	48.77	5.49	366	13	42101	1.03	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK2	41249	160	18	42.73	200	86.17	338.68
48161	4911	20300203	773.2910	3531.7740	14	48.77	5.49	366	13	42603	0.76	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK2	41249	160	18	42.73	200	63.4	252.91
48161	4911	20300203	773.2910	3531.7740	14	48.77	5.49	366	13	43104	0.03	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK2	41249	160	18	42.73	200	2.8	10.75
48161	4911	20300203	773.2910	3531.1656	14	48.77	5.49	366	13	42101	1.03	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK3	41249	160	18	42.73	200	86.17	338.68
48161	4911	20300203	773.2910	3531.1656	14	48.77	5.49	366	13	42603	0.76	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK3	41249	160	18	42.73	200	63.4	252.91
48161	4911	20300203	773.2910	3531.1656	14	48.77	5.49	366	13	42603	0.03	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK3	41249	160	18	42.73	200	2.8	10.75

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
48161	4911	20300203	773.2910	3531.6110	14	48.77	5.49	366	13	42101	1.03	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK4	41249	160	18	42.73	200	86.17	338.68
48161	4911	20300203	773.2910	3531.6110	14	48.77	5.49	366	13	42603	0.76	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK4	41249	160	18	42.73	200	63.4	252.91
48161	4911	20300203	773.2910	3531.6110	14	48.77	5.49	366	13	43104	0.03	Freestone Power Project, L.P.	FI0129W	GT/Unfired HRSG	STACK4	41249	160	18	42.73	200	2.8	10.75
48167	2911	TBD	314.6420	3250.2930	15	49.07	2.53	427	3	42101	0.28	Valero Refining Company	GB0073P	H-45	EH-45	1122A	161	8.3	10.1	310	23.4	56.10
48167	2911	TBD	314.6420	3250.2930	15	49.07	2.53	427	3	42603	0.22	Valero Refining Company	GB0073P	H-45	EH-45	1122A	161	8.3	10.1	310	18.2	27.20
48167	2911	TBD	314.6420	3250.2930	15	49.07	2.53	427	3	43104	0.02	Valero Refining Company	GB0073P	H-45	EH-45	1122A	161	8.3	10.1	310	1.6	3.70
48167	2911	TBD	314.6530	3250.3030	15	39.93	2.19	428	3	42101	0.21	Valero Refining Company	GB0073P	H-46	EH-46	1122A	131	7.2	10.2	311	17.8	42.90
48167	2911	TBD	314.6530	3250.3030	15	39.93	2.19	428	3	42603	0.17	Valero Refining Company	GB0073P	H-46	EH-46	1122A	131	7.2	10.2	311	13.9	20.80
48167	2911	TBD	314.6530	3250.3030	15	39.93	2.19	428	3	43104	0.01	Valero Refining Company	GB0073P	H-46	EH-46	1122A	131	7.2	10.2	311	1.2	2.80
48167	2869	TBD	311.0950	3250.9000	15	0.00	2.44	434	14	42101	0.40	Union Carbide Corporation	GB0076J	E02B030	E02B030	2958A	TBD	8	46.8	322	33.09	131.58
48167	2869	TBD	311.0950	3250.9000	15	0.00	2.44	434	14	42603	0.56	Union Carbide Corporation	GB0076J	E02B030	E02B030	2958A	TBD	8	46.8	322	46.8	170.82
48167	2869	TBD	311.0950	3250.9000	15	0.00	2.44	434	14	43104	0.02	Union Carbide Corporation	GB0076J	E02B030	E02B030	2958A	TBD	8	46.8	322	1.91	2.60
48167	2813	20100201	315.523	3251.034	15	12.25296	1.07	489.7	5.12064	43104	0.17	Praxair Corporation	GB0325L	Turbine	EPN-1	20250	40.2	3.51	16.8	422	14.3	20.20
48185	4911	20300203	220.2030	3387.8710	15	46.63	5.49	366	22	42101	1.81	Tenaska Frontier Generation Station	GK0077F	GT-HRSG#1	GT-HRSG#1	37391	153	18	73.2	200	150.5	462.80
48185	4911	20300203	220.2030	3387.8710	15	46.63	5.49	366	22	42603	4.55	Tenaska Frontier Generation Station	GK0077F	GT-HRSG#1	GT-HRSG#1	37391	153	18	73.2	200	379	692.40
48185	4911	20300203	220.2030	3387.8710	15	46.63	5.49	366	22	43104	0.33	Tenaska Frontier Generation Station	GK0077F	GT-HRSG#1	GT-HRSG#1	37391	153	18	73.2	200	27.3	74.00
48185	4911	20300203	220.2530	3387.8890	15	46.63	5.49	366	22	42101	1.81	Tenaska Frontier Generation Station	GK0077F	GT-HRSG#2	GT-HRSG#2	37391	153	18	73.2	200	150.5	462.80
48185	4911	20300203	220.2530	3387.8890	15	46.63	5.49	366	22	42603	4.55	Tenaska Frontier Generation Station	GK0077F	GT-HRSG#2	GT-HRSG#2	37391	153	18	73.2	200	379	692.40
48185	4911	20300203	220.2530	3387.8890	15	46.63	5.49	366	22	43104	0.33	Tenaska Frontier Generation Station	GK0077F	GT-HRSG#2	GT-HRSG#2	37391	153	18	73.2	200	27.3	74.00
48185	4911	20300203	220.3030	3387.9060	15	46.63	5.49	366	22	42101	1.81	Tenaska Frontier Generation Station	GK0077F	GT-HRSG#3	GT-HRSG#3	37391	153	18	73.2	200	150.5	462.80
48185	4911	20300203	220.3030	3387.9060	15	46.63	5.49	366	22	42603	4.55	Tenaska Frontier Generation Station	GK0077F	GT-HRSG#3	GT-HRSG#3	37391	153	18	73.2	200	379	692.40
48185	4911	20300203	220.3030	3387.9060	15	46.63	5.49	366	22	43104	0.33	Tenaska Frontier Generation Station	GK0077F	GT-HRSG#3	GT-HRSG#3	37391	153	18	73.2	200	27.3	74.00
48187	4911	20300203	583.3320	3277.0371	14	39.62	6.10	355	16	42101	0.82	Guadalupe Power Partners, L.P.	GL0135F	CTG-1	CTG-1	38659	130	20	50.9	180	68	236.50
48187	4911	20300203	583.3320	3277.0371	14	39.62	6.10	355	16	42603	0.95	Guadalupe Power Partners, L.P.	GL0135F	CTG-1	CTG-1	38659	130	20	50.9	180	79	284.30
48187	4911	20300203	583.3320	3277.0371	14	39.62	6.10	355	16	43104	0.06	Guadalupe Power Partners, L.P.	GL0135F	CTG-1	CTG-1	38659	130	20	50.9	180	5	16.30
48187	4911	20300203	583.3320	3277.0809	14	39.62	6.10	355	16	42101	0.82	Guadalupe Power Partners, L.P.	GL0135F	CTG-2	CTG-2	38659	130	20	50.9	180	68	236.50
48187	4911	20300203	583.3320	3277.0809	14	39.62	6.10	355	16	42603	0.95	Guadalupe Power Partners, L.P.	GL0135F	CTG-2	CTG-2	38659	130	20	50.9	180	79	284.30
48187	4911	20300203	583.3320	3277.0809	14	39.62	6.10	355	16	43104	0.06	Guadalupe Power Partners, L.P.	GL0135F	CTG-2	CTG-2	38659	130	20	50.9	180	5	16.30
48187	4911	20300203	583.3320	3277.1579	14	39.62	6.10	355	16	42101	0.82	Guadalupe Power Partners, L.P.	GL0135F	CTG-3	CTG-3	38659	130	20	50.9	180	68	236.50

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
48187	4911	20300203	583.3320	3277.1579	14	39.62	6.10	355	16	42603	0.95	Guadalupe Power Partners, L.P.	GL0135F	CTG-3	CTG-3	38659	130	20	50.9	180	79	284.30
48187	4911	20300203	583.3320	3277.1579	14	39.62	6.10	355	16	43104	0.06	Guadalupe Power Partners, L.P.	GL0135F	CTG-3	CTG-3	38659	130	20	50.9	180	5	16.30
48187	4911	20300203	583.3320	3277.2036	14	39.62	6.10	355	16	42101	0.82	Guadalupe Power Partners, L.P.	GL0135F	CTG-4	CTG-4	38659	130	20	50.9	180	68	237.90
48187	4911	20300203	583.3320	3277.2036	14	39.62	6.10	355	16	42603	0.95	Guadalupe Power Partners, L.P.	GL0135F	CTG-4	CTG-4	38659	130	20	50.9	180	79	284.30
48187	4911	20300203	583.3320	3277.2036	14	39.62	6.10	355	16	43104	0.06	Guadalupe Power Partners, L.P.	GL0135F	CTG-4	CTG-4	38659	130	20	50.9	180	5	16.30
48187	4911	20300203	583.3320	3277.0371	14	39.62	6.10	355	16	42101	0.85	Rio Nogales Power Project LP	GL0146A	CTG-1	CTG-1	40867	130	20	50.9	180	70.6	116.18
48187	4911	20300203	583.3320	3277.0371	14	39.62	6.10	355	16	42603	1.25	Rio Nogales Power Project LP	GL0146A	CTG-1	CTG-1	40867	130	20	50.9	180	104.1	213.03
48187	4911	20300203	583.3320	3277.0371	14	39.62	6.10	355	16	43104	0.06	Rio Nogales Power Project LP	GL0146A	CTG-1	CTG-1	40867	130	20	50.9	180	5.3	10.73
48187	4911	20300203	583.3320	3277.0809	14	39.62	6.10	355	16	42101	0.85	Rio Nogales Power Project LP	GL0146A	CTG-2	CTG-2	40867	130	20	50.9	180	70.6	116.18
48187	4911	20300203	583.3320	3277.0809	14	39.62	6.10	355	16	42603	1.25	Rio Nogales Power Project LP	GL0146A	CTG-2	CTG-2	40867	130	20	50.9	180	104.1	213.03
48187	4911	20300203	583.3320	3277.0809	14	39.62	6.10	355	16	43104	0.06	Rio Nogales Power Project LP	GL0146A	CTG-2	CTG-2	40867	130	20	50.9	180	5.3	10.73
48187	4911	20300203	583.3320	3277.1579	14	39.62	6.10	355	16	42101	0.85	Rio Nogales Power Project LP	GL0146A	CTG-3	CTG-3	40867	130	20	50.9	180	70.6	154.90
48187	4911	20300203	583.3320	3277.1579	14	39.62	6.10	355	16	42603	1.25	Rio Nogales Power Project LP	GL0146A	CTG-3	CTG-3	40867	130	20	50.9	180	104.1	284.00
48187	4911	20300203	583.3320	3277.1579	14	39.62	6.10	355	16	43104	0.06	Rio Nogales Power Project LP	GL0146A	CTG-3	CTG-3	40867	130	20	50.9	180	5.3	14.30
48201	TBD	TBD	282.1950	3294.5290	15	36.58	0.76	755	17	42101	0.08	Anchor Glass Container Corporation	HG0028R	Furnace 1	Furnace !	42623	120	2.5	55.6	900	6.26	27.40
48201	TBD	TBD	282.1950	3294.5290	15	36.58	0.76	755	17	42603	0.56	Anchor Glass Container Corporation	HG0028R	Furnace 1	Furnace !	42623	120	2.5	55.6	900	46.3	202.60
48201	TBD	TBD	282.1950	3294.5290	15	36.58	0.76	755	17	43104	0.08	Anchor Glass Container Corporation	HG0028R	Furnace 1	Furnace !	42623	120	2.5	55.6	900	6.26	27.40
48201	TBD	TBD	282.1950	3294.5290	15	36.58	0.76	755	17	42101	0.08	Anchor Glass Container Corporation	HG0028R	Furnace-1	Furnace-1	42623	120	2.5	55.6	900	6.26	27.40
48201	TBD	TBD	282.1950	3294.5290	15	36.58	0.76	755	17	42603	0.56	Anchor Glass Container Corporation	HG0028R	Furnace-1	Furnace-1	42623	120	2.5	55.6	900	46.3	202.60
48201	TBD	TBD	282.1950	3294.5290	15	36.58	0.76	755	17	43104	0.08	Anchor Glass Container Corporation	HG0028R	Furnace-1	Furnace-1	42623	120	2.5	55.6	900	6.26	27.40
48201	4911	TBD	300.2000	3278.9000	15	27.43	4.88	505	6	42101	0.76	Celanese	HG0216Q	TBD	STACK1	38296	90	16	20.7	450	63.5	278.30
48201	4911	TBD	300.2000	3278.9000	15	27.43	4.88	505	6	42603	3.41	Celanese	HG0216Q	TBD	STACK1	38296	90	16	20.7	450	284	1244.00
48201	4911	TBD	300.2000	3278.9000	15	27.43	4.88	505	6	43104	0.22	Celanese	HG0216Q	TBD	STACK1	38296	90	16	20.7	450	18.04	79.10
48201	2911	TBD	305.0250	3293.3090	15	43.83	2.35	422	7	42101	0.03	Exxon - Mobil	HG0228H	TBD	STACK1	3452	143.8	7.7	23.2	300	2.9	12.07
48201	2911	TBD	305.0250	3293.3090	15	43.83	2.35	422	7	42603	0.32	Exxon - Mobil	HG0228H	TBD	STACK1	3452	143.8	7.7	23.2	300	26.64	77.20
48201	2911	TBD	305.0250	3293.3090	15	43.83	2.35	422	7	43104	0.02	Exxon - Mobil	HG0228H	TBD	STACK1	3452	143.8	7.7	23.2	300	2.07	1.71
48201	2911	TBD	305.0850	3293.3040	15	40.11	0.82	373	33	42101	2.53	Exxon - Mobil	HG0228H	TBD	STACK10	3452	131.6	2.7	107	212	211	10.70
48201	2911	TBD	305.0990	3293.2970	15	43.83	2.35	422	7	42101	0.03	Exxon - Mobil	HG0228H	TBD	STACK11	3452	143.8	7.7	23.2	300	2.9	12.07
48201	2911	TBD	305.0990	3293.2970	15	43.83	2.35	422	7	42603	0.32	Exxon - Mobil	HG0228H	TBD	STACK11	3452	143.8	7.7	23.2	300	26.64	77.20
48201	2911	TBD	305.0990	3293.2970	15	43.83	2.35	422	7	43104	0.02	Exxon - Mobil	HG0228H	TBD	STACK11	3452	143.8	7.7	23.2	300	2.07	1.71
48201	2911	TBD	305.1000	3293.3020	15	40.11	0.82	373	33	42101	2.53	Exxon - Mobil	HG0228H	TBD	STACK12	3452	131.6	2.7	107	212	211	10.70

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
48201	2911	TBD	305.1150	3293.3020	15	46.63	3.14	425	7	42101	0.51	Exxon - Mobil	HG0228H	TBD	STACK13	3452	153	10.3	23	305	42.82	12.07
48201	2911	TBD	305.1150	3293.3020	15	46.63	3.14	425	7	42603	0.48	Exxon - Mobil	HG0228H	TBD	STACK13	3452	153	10.3	23	305	40.1	77.20
48201	2911	TBD	305.1150	3293.3020	15	46.63	3.14	425	7	43104	0.00	Exxon - Mobil	HG0228H	TBD	STACK13	3452	153	10.3	23	305	0.41	1.71
48201	2911	TBD	305.1160	3293.3070	15	30.48	31.09	373	149	42101	5.81	Exxon - Mobil	HG0228H	TBD	STACK14	3452	100	102	490	212	484.5	20.14
48201	2911	TBD	305.0270	3293.3140	15	40.11	0.82	373	33	42101	2.53	Exxon - Mobil	HG0228H	TBD	STACK2	3452	131.6	2.7	107	212	211	10.70
48201	2911	TBD	305.0400	3293.3070	15	43.83	2.35	422	7	42101	0.03	Exxon - Mobil	HG0228H	TBD	STACK3	3452	143.8	7.7	23.2	300	2.9	12.07
48201	2911	TBD	305.0400	3293.3070	15	43.83	2.35	422	7	42603	0.32	Exxon - Mobil	HG0228H	TBD	STACK3	3452	143.8	7.7	23.2	300	26.64	77.20
48201	2911	TBD	305.0400	3293.3070	15	43.83	2.35	422	7	43104	0.02	Exxon - Mobil	HG0228H	TBD	STACK3	3452	143.8	7.7	23.2	300	2.07	1.71
48201	2911	TBD	305.0410	3293.3110	15	40.11	0.82	373	33	42101	2.53	Exxon - Mobil	HG0228H	TBD	STACK4	3452	131.6	2.7	107	212	211	10.70
48201	2911	TBD	305.0550	3293.3040	15	43.83	2.35	422	7	42101	0.03	Exxon - Mobil	HG0228H	TBD	STACK5	3452	143.8	7.7	23.2	300	2.9	12.07
48201	2911	TBD	305.0550	3293.3040	15	43.83	2.35	422	7	42603	0.32	Exxon - Mobil	HG0228H	TBD	STACK5	3452	143.8	7.7	23.2	300	26.64	77.20
48201	2911	TBD	305.0550	3293.3040	15	43.83	2.35	422	7	43104	0.02	Exxon - Mobil	HG0228H	TBD	STACK5	3452	143.8	7.7	23.2	300	2.07	1.71
48201	2911	TBD	305.0560	3293.3090	15	40.11	0.82	373	33	42101	2.53	Exxon - Mobil	HG0228H	TBD	STACK6	3452	131.6	2.7	107	212	211	10.70
48201	2911	TBD	305.0690	3293.3020	15	43.83	2.35	422	7	42101	0.03	Exxon - Mobil	HG0228H	TBD	STACK7	3452	143.8	7.7	23.2	300	2.9	12.07
48201	2911	TBD	305.0690	3293.3020	15	43.83	2.35	422	7	42603	0.32	Exxon - Mobil	HG0228H	TBD	STACK7	3452	143.8	7.7	23.2	300	26.64	77.20
48201	2911	TBD	305.0690	3293.3020	15	43.83	2.35	422	7	43104	0.02	Exxon - Mobil	HG0228H	TBD	STACK7	3452	143.8	7.7	23.2	300	2.07	1.71
48201	2911	TBD	305.0710	3293.3070	15	40.11	0.82	373	33	42101	2.53	Exxon - Mobil	HG0228H	TBD	STACK8	3452	131.6	2.7	107	212	211	10.70
48201	2911	TBD	305.0840	3293.3000	15	43.83	2.35	422	7	42101	0.03	Exxon - Mobil	HG0228H	TBD	STACK9	3452	143.8	7.7	23.2	300	2.9	12.07
48201	2911	TBD	305.0840	3293.3000	15	43.83	2.35	422	7	42603	0.32	Exxon - Mobil	HG0228H	TBD	STACK9	3452	143.8	7.7	23.2	300	26.64	77.20
48201	2911	TBD	305.0840	3293.3000	15	43.83	2.35	422	7	43104	0.02	Exxon - Mobil	HG0228H	TBD	STACK9	3452	143.8	7.7	23.2	300	2.07	1.71
48187	2911	TBD	306.3360	3291.8970	15	60.96	1.83	477	9	4310	0.00	Exxon Company USA	HG0232	DCUF601	DCUF601	40394	200	6	29	400	0.25	0.81
48187	2911	TBD	306.3360	3291.8970	15	60.96	1.83	477	9	42101	0.14	Exxon Company USA	HG0232	DCUF601	DCUF601	40394	200	6	29	400	12.05	38.00
48187	2911	TBD	306.3360	3291.8970	15	60.96	1.83	477	9	42603	0.14	Exxon Company USA	HG0232	DCUF601	DCUF601	40394	200	6	29	400	12	38.40
48187	2911	TBD	306.3280	3291.8850	15	60.96	1.83	477	9	42101	0.14	Exxon Company USA	HG0232	DCUF602	DCUF602	40394	200	6	29	400	12.05	38.00
48187	2911	TBD	306.3280	3291.8850	15	60.96	1.83	477	9	42603	0.14	Exxon Company USA	HG0232	DCUF602	DCUF602	40394	200	6	29	400	12	38.40
48187	2911	TBD	306.3280	3291.8850	15	60.96	1.83	477	9	43104	0.00	Exxon Company USA	HG0232	DCUF602	DCUF602	40394	200	6	29	400	0.25	0.81
48201	2911	TBD	306.6750	3291.6250	15	45.72	2.44	477	6	42101	0.00	Exxon Company, USA	HG0232Q	PS7F707	PS7F707	28697	150	8	19	400		
48201	2911	TBD	306.6750	3291.6250	15	45.72	2.44	477	6	42603	0.00	Exxon Company, USA	HG0232Q	PS7F707	PS7F707	28697	150	8	19	400		35.01
48201	2911	TBD	306.6750	3291.6250	15	45.72	2.44	477	6	43104	0.00	Exxon Company, USA	HG0232Q	PS7F707	PS7F707	28697	150	8	19	400		1.57
48201	2911	TBD	306.3360	3291.8970	15	60.96	1.83	477	9	42101	0.14	Exxon - Mobil	HG0232Q	TBD	STACK1	40394	200	6	29	400	12.05	38.00
48201	2911	TBD	306.3360	3291.8970	15	60.96	1.83	477	9	42101	0.14	Exxon - Mobil	HG0232Q	TBD	STACK1	40394	200	6	29	400	12.05	38.00
48201	2911	TBD	306.3360	3291.8970	15	60.96	1.83	477	9	42603	0.14	Exxon - Mobil	HG0232Q	TBD	STACK1	40394	200	6	29	400	12	38.40
48201	2911	TBD	306.3360	3291.8970	15	60.96	1.83	477	9	42603	0.14	Exxon - Mobil	HG0232Q	TBD	STACK1	40394	200	6	29	400	12	38.40
48201	2911	TBD	306.3360	3291.8970	15	60.96	1.83	477	9	43104	0.00	Exxon - Mobil	HG0232Q	TBD	STACK1	40394	200	6	29	400	0.25	0.81
48201	2911	TBD	306.3360	3291.8970	15	60.96	1.83	477	9	43104	0.00	Exxon - Mobil	HG0232Q	TBD	STACK1	40394	200	6	29	400	0.25	0.81
48201	2911	TBD	306.3280	3291.8850	15	60.96	1.83	477	9	42101	0.14	Exxon - Mobil	HG0232Q	TBD	STACK2	40394	200	6	29	400	12.05	38.00
48201	2911	TBD	306.3280	3291.8850	15	60.96	1.83	477	9	42101	0.14	Exxon - Mobil	HG0232Q	TBD	STACK2	40394	200	6	29	400	12.05	38.00

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
48201	2911	TBD	306.3280	3291.8850	15	60.96	1.83	477	9	42603	0.14	Exxon - Mobil	HG0232Q	TBD	STACK2	40394	200	6	29	400	12	38.40
48201	2911	TBD	306.3280	3291.8850	15	60.96	1.83	477	9	42603	0.14	Exxon - Mobil	HG0232Q	TBD	STACK2	40394	200	6	29	400	12	38.40
48201	2911	TBD	306.3280	3291.8850	15	60.96	1.83	477	9	43104	0.00	Exxon - Mobil	HG0232Q	TBD	STACK2	40394	200	6	29	400	0.25	0.81
48201	2911	TBD	306.3280	3291.8850	15	60.96	1.83	477	9	43104	0.00	Exxon - Mobil	HG0232Q	TBD	STACK2	40394	200	6	29	400	0.25	0.81
48201	2911	TBD	305.2520	3292.1390	15	24.38	2.44	425	5	42101	0.23	Exxon - Mobil	HG0232Q	TBD	STACK3	40394	80	8	16.3	305	18.91	82.80
48201	2911	TBD	305.2520	3292.1390	15	24.38	2.44	425	5	42101	0.23	Exxon - Mobil	HG0232Q	TBD	STACK3	40394	80	8	16.3	305	18.91	82.80
48201	2911	TBD	305.2520	3292.1390	15	24.38	2.44	425	5	42603	0.25	Exxon - Mobil	HG0232Q	TBD	STACK3	40394	80	8	16.3	305	20.45	89.60
48201	2911	TBD	305.2520	3292.1390	15	24.38	2.44	425	5	42603	0.25	Exxon - Mobil	HG0232Q	TBD	STACK3	40394	80	8	16.3	305	20.45	89.60
48201	2911	TBD	305.2520	3292.1390	15	24.38	2.44	425	5	43104	0.00	Exxon - Mobil	HG0232Q	TBD	STACK3	40394	80	8	16.3	305	0.4	1.76
48201	2911	TBD	305.2520	3292.1390	15	24.38	2.44	425	5	43104	0.00	Exxon - Mobil	HG0232Q	TBD	STACK3	40394	80	8	16.3	305	0.4	1.76
48201	2869	TBD	301.1580	3280.2370	15	21.34	0.61	1089	20	42101	0.00	Lubrizol Petroleum Chemicals Copmpany	HG0460B	X-401	X-401	7264	70	2	65.6	1500	0.31	0.91
48201	2869	TBD	301.1580	3280.2370	15	21.34	0.61	1089	20	42603	0.17	Lubrizol Petroleum Chemicals Copmpany	HG0460B	X-401	X-401	7264	70	2	65.6	1500	13.77	11.03
48201	2869	TBD	301.1580	3280.2370	15	21.34	0.61	1089	20	43104	0.00	Lubrizol Petroleum Chemicals Copmpany	HG0460B	X-401	X-401	7264	70	2	65.6	1500	0.21	0.37
48201	2911	TBD	281.8530	3287.1650	15	33.53	1.62	511	5	42101	0.03	Texas Petrochemical Corporation	HG0562P	EB-1B-2501	EB-1B-2501	19806	110	5.33	16.55	460	2.23	9.75
48201	2911	TBD	281.8530	3287.1650	15	33.53	1.62	511	5	42603	0.11	Texas Petrochemical Corporation	HG0562P	EB-1B-2501	EB-1B-2501	19806	110	5.33	16.55	460	9.1	39.86
48201	2911	TBD	281.8530	3287.1650	15	33.53	1.62	511	5	43104	0.00	Texas Petrochemical Corporation	HG0562P	EB-1B-2501	EB-1B-2501	19806	110	5.33	16.55	460	0.18	0.78
48201	2911	TBD	281.8460	3287.1540	15	19.81	3.05	401	19	42101	0.12	Texas Petrochemical Corporation	HG0562P	EB-1B-505	EB-1B-505	19806	65	10	63	262	9.6	35.04
48201	2911	TBD	281.8460	3287.1540	15	19.81	3.05	401	19	42603	1.00	Texas Petrochemical Corporation	HG0562P	EB-1B-505	EB-1B-505	19806	65	10	63	262	83.6	332.88
48201	2911	TBD	281.8460	3287.1540	15	19.81	3.05	401	19	43104	0.01	Texas Petrochemical Corporation	HG0562P	EB-1B-505	EB-1B-505	19806	65	10	63	262	0.5	2.18
48201	2911	TBD	281.8590	3287.2160	15	18.29	2.74	422	17	42101	0.04	Texas Petrochemical Corporation	HG0562P	EB-1B-506	EB-1B-506	19806	60	9	57	300	3.11	11.37
48201	2911	TBD	281.8590	3287.2160	15	18.29	2.74	422	17	42603	0.56	Texas Petrochemical Corporation	HG0562P	EB-1B-506	EB-1B-506	19806	60	9	57	300	46.71	170.48
48201	2911	TBD	281.8590	3287.2160	15	18.29	2.74	422	17	43104	0.00	Texas Petrochemical Corporation	HG0562P	EB-1B-506	EB-1B-506	19806	60	9	57	300	0.35	1.57
48201	2869	TBD	282.0060	3287.6190	15	16.76	2.74	464	6	42101	0.11	Texas Petrochemical Corporation	HG0562P	BLR-5	EP-H5	19806	55	9	18.3	375	8.85	38.74
48201	2869	TBD	282.0060	3287.6190	15	16.76	2.74	464	6	42603	0.59	Texas Petrochemical Corporation	HG0562P	BLR-5	EP-H5	19806	55	9	18.3	375	49.14	215.23
48201	2869	TBD	282.0060	3287.6190	15	16.76	2.74	464	6	43104	0.00	Texas Petrochemical Corporation	HG0562P	BLR-5	EP-H5	19806	55	9	18.3	375	0.31	1.34
48201	2869	TBD	282.0060	3287.6460	15	16.76	2.74	464	6	42101	0.21	Texas Petrochemical Corporation	HG0562P	BLR-8	EP-H8	19806	55	9	18.3	375	17.5	50.80
48201	2869	TBD	282.0060	3287.6460	15	16.76	2.74	464	6	42603	1.44	Texas Petrochemical Corporation	HG0562P	BLR-8	EP-H8	19806	55	9	18.3	375	120.28	349.22
48201	2869	TBD	282.0060	3287.6460	15	16.76	2.74	464	6	43104	0.01	Texas Petrochemical Corporation	HG0562P	BLR-8	EP-H8	19806	55	9	18.3	375	0.61	1.78
48201	2869	TBD	282.0120	3287.6610	15	16.76	3.05	464	5	42101	0.42	Texas Petrochemical Corporation	HG0562P	BLR-9	EP-H9	19806	55	10	14.8	375	34.95	95.72
48201	2869	TBD	282.0120	3287.6610	15	16.76	3.05	464	5	42603	2.88	Texas Petrochemical Corporation	HG0562P	BLR-9	EP-H9	19806	55	10	14.8	375	240.29	658.08

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
48201	2869	TBD	282.0120	3287.6610	15	16.76	3.05	464	5	43104	0.01	Texas Petrochemical Corporation	HG0562P	BLR-9	EP-H9	19806	55	10	14.8	375	1.22	3.35
48201	2911	TBD	296.4000	3290.1000	15	21.34	2.67	707	4	42101	0.29	Rohm and Haas Texas, Inc.	HG0632T	TBD	AP-1a	2165	70	8.75	13	814	24.1	82.70
48201	2911	TBD	296.4000	3290.1000	15	21.34	2.67	707	4	42603	0.36	Rohm and Haas Texas, Inc.	HG0632T	TBD	AP-1a	2165	70	8.75	13	814	29.8	102.30
48201	2911	TBD	296.4000	3290.1000	15	21.34	2.67	707	4	43104	0.01	Rohm and Haas Texas, Inc.	HG0632T	TBD	AP-1a	2165	70	8.75	13	814	0.7	2.40
48201	2869	TBD	296.9350	3290.2260	15	30.48	2.44	450	21	42101	0.29	Rohm and Haas Texas, Inc.	HG0632T	TBD	BH-2-4	2165	100	8	70	350	24	69.90
48201	2869	TBD	296.9350	3290.2260	15	30.48	2.44	450	21	42603	3.97	Rohm and Haas Texas, Inc.	HG0632T	TBD	BH-2-4	2165	100	8	70	350	330.6	960.50
48201	2869	TBD	296.9350	3290.2260	15	30.48	2.44	450	21	43104	0.01	Rohm and Haas Texas, Inc.	HG0632T	TBD	BH-2-4	2165	100	8	70	350	0.84	2.45
48187	4911	TBD	294.4790	3289.5400	15	45.72	1.49	444	17	42101	0.01	Shell Oil Company	HG0659W	H87002	H87002	3179	150	4.9	56	340	0.5	2.20
48187	4911	TBD	294.4790	3289.5400	15	45.72	1.49	444	17	42603	0.01	Shell Oil Company	HG0659W	H87002	H87002	3179	150	4.9	56	340	0.9	3.94
48187	4911	TBD	294.4790	3289.5400	15	45.72	1.49	444	17	43104	0.08	Shell Oil Company	HG0659W	H87002	H87002	3179	150	4.9	56	340	6.69	26.71
48201	2911	TBD	293.4360	3290.3780	15	2.44	2.74	300	0	43104	0.16	Shell Oil Company	HG0659W	COKEHCFUG	COKEHCFUG	21262	8	9	0.001	80	13.63	59.69
48201	2911	TBD	294.3480	3290.4560	15	2.44	2.74	300	0	43104	0.19	Shell Oil Company	HG0659W	FEALKY	FEALKY	21262	8	9	0.001	80	15.55	68.11
48201	2911	TBD	293.4660	3290.2050	15	80.77	1.10	422	8	42101	0.22	Shell Oil Company	HG0659W	HCOKER2	HCOKER2	21262	265	3.6	25	300	18.45	80.82
48201	2911	TBD	293.4660	3290.2050	15	80.77	1.10	422	8	42603	0.14	Shell Oil Company	HG0659W	HCOKER2	HCOKER2	21262	265	3.6	25	300	12	52.56
48201	2911	TBD	293.4660	3290.2050	15	80.77	1.10	422	8	43104	0.01	Shell Oil Company	HG0659W	HCOKER2	HCOKER2	21262	265	3.6	25	300	1.21	5.29
48201	2911	TBD	293.4660	3290.0710	15	80.77	3.12	422	8	42101	0.25	Shell Oil Company	HG0659W	HPOSTFRAC	HPOSTFRAC	21262	265	10.24	25	300	20.58	90.12
48201	2911	TBD	293.4660	3290.0710	15	80.77	3.12	422	8	42603	0.08	Shell Oil Company	HG0659W	HPOSTFRAC	HPOSTFRAC	21262	265	10.24	25	300	6.9	30.22
48201	2911	TBD	293.4660	3290.0710	15	80.77	3.12	422	8	43104	0.02	Shell Oil Company	HG0659W	HPOSTFRAC	HPOSTFRAC	21262	265	10.24	25	300	1.35	5.90
48201	2911	TBD	294.3900	3290.0570	15	80.77	3.12	511	8	42101	0.25	Shell Oil Company	HG0659W	HYREFLASH2	HYREFLASH2	21262	265	10.24	25	460	21.22	92.94
48201	2911	TBD	294.3900	3290.0570	15	80.77	3.12	511	8	42603	0.17	Shell Oil Company	HG0659W	HYREFLASH2	HYREFLASH2	21262	265	10.24	25	460	13.8	60.44
48201	2911	TBD	294.3900	3290.0570	15	80.77	3.12	511	8	43104	0.02	Shell Oil Company	HG0659W	HYREFLASH2	HYREFLASH2	21262	265	10.24	25	460	1.39	6.09
48201	2911	TBD	TBD	TBD	15	0.00	0.00	255	0	43104	0.00	Shell Oil Company	HG0659W	TBD	TBD	21262						114.80
48201	2911	TBD	TBD	TBD	15	0.00	0.00	255	0	42101	0.00	Shell Oil Company	HG0659W	TBD	TBD	22038						343.80
48201	2911	TBD	TBD	TBD	15	0.00	0.00	255	0	42101	0.00	Shell Oil Company	HG0659W	TBD	TBD	22038						343.80
48201	2911	TBD	TBD	TBD	15	0.00	0.00	255	0	42603	0.00	Shell Oil Company	HG0659W	TBD	TBD	22038						367.00
48201	2911	TBD	TBD	TBD	15	0.00	0.00	255	0	42603	0.00	Shell Oil Company	HG0659W	TBD	TBD	22038						367.00
48201	2911	TBD	TBD	TBD	15	0.00	0.00	255	0	43104	0.00	Shell Oil Company	HG0659W	TBD	TBD	22038						21.80
48201	2911	TBD	TBD	TBD	15	0.00	0.00	255	0	43104	0.00	Shell Oil Company	HG0659W	TBD	TBD	22038						21.80
48201	2911	TBD	294.4980	3289.5310	15	45.72	2.59	450	11	42101	0.39	Shell Oil Company	HG0659W	H87920	H87920	37206	150	8.5	36	350	32.3	127.90
48201	2911	TBD	294.4980	3289.5310	15	45.72	2.59	450	11	42603	0.44	Shell Oil Company	HG0659W	H87920	H87920	37206	150	8.5	36	350	37	150.90
48201	2911	TBD	294.4980	3289.5310	15	45.72	2.59	450	11	43104	0.02	Shell Oil Company	HG0659W	H87920	H87920	37206	150	8.5	36	350	1.3	5.40
48201	2869	TBD	298.6090	3289.9530	15	58.52	0.51	1200	20	42101	0.79	Solvay Polymers	HG0665E	TBD	PP-FU1P	4904	192	1.67	65.6	1700	65.62	65.00
48201	2869	TBD	298.6090	3289.9530	15	58.52	0.51	1200	20	42603	0.15	Solvay Polymers	HG0665E	TBD	PP-FU1P	4904	192	1.67	65.6	1700	12.88	12.76
48201	2869	TBD	298.6090	3289.9530	15	58.52	0.51	1200	20	43104	0.98	Solvay Polymers	HG0665E	TBD	PP-FU1P	4904	192	1.67	65.6	1700	81.88	96.87
48201	4911	TBD	296.0630	3299.9130	15	21.34	6.10	896	28	42101	1.34	Dynegy Power	HG1174V	TBD	STACK1	9241A	70	20	92.1	1154	112	98.00
48201	4911	TBD	296.0630	3299.9130	15	21.34	6.10	896	28	42101	1.34	Dynegy Power	HG1174V	TBD	STACK1	9241A	70	20	92.1	1154	112	98.00
48201	4911	TBD	296.0630	3299.9130	15	21.34	6.10	896	28	42603	2.05	Dynegy Power	HG1174V	TBD	STACK1	9241A	70	20	92.1	1154	171	155.00
48201	2911	TBD	296.1860	3300.1710	15	38.10	1.23	733	7	42101	0.03	Agrifos Fertilizer, L.P.	HG1575W	F57180	EF57180	18103	125	4.02	22	860	2.24	6.22
48201	2911	TBD	296.1860	3300.1710	15	38.10	1.23	733	7	42603	0.09	Agrifos Fertilizer, L.P.	HG1575W	F57180	EF57180	18103	125	4.02	22	860	7.68	26.78
48201	2911	TBD	296.1860	3300.1710	15	38.10	1.23	733	7	43104	0.01	Agrifos Fertilizer, L.P.	HG1575W	F57180	EF57180	18103	125	4.02	22	860	0.9	0.90
48201	4911	TBD	295.8830	3300.0150	15	105.16	0.36	339	0	42101	0.01	Agrifos Fertilizer, L.P.	HG1575W	FL6104	EFL6104	18103	345	1.17	0.566	150	0.6	1.37
48201	4911	TBD	295.8830	3300.0150	15	105.16	0.36	339	0	42603	0.00	Agrifos Fertilizer, L.P.	HG1575W	FL6104	EFL6104	18103	345	1.17	0.566	150	0.12	0.27
48201	4911	TBD	295.8830	3300.0150	15	105.16	0.36	339	0	43104	0.02	Agrifos Fertilizer, L.P.	HG1575W	FL6104	EFL6104	18103	345	1.17	0.566	150	1.33	3.07
48201	2869	TBD	295.8870	3300.0470	15	12.19	0.34	255	8	42101	0.35	Agrifos Fertilizer, L.P.	HG1575W	FL6105	EFL6105	18103	40	1.125	27		28.78	42.33
48201	2869	TBD	295.8870	3300.0470	15	12.19	0.34	255	8	42603	0.07	Agrifos Fertilizer, L.P.	HG1575W	FL6105	EFL6105	18103	40	1.125	27		5.65	8.31
48201	2869	TBD	295.8870	3300.0470	15	12.19	0.34	255	8	43104	0.10	Agrifos Fertilizer, L.P.	HG1575W	FL6105	EFL6105	18103	40	1.125	27		8.2	9.31
48201	2822	TBD	304.7380	3294.9700	15	15.24	1.22	426	23	42101	0.10	Enichem	HG3757A	VE-11	VE-11	42213	50	4	74.14	308	7.97	28.75

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
48201	2822	TBD	304.7380	3294.9700	15	15.24	1.22	426	23	42603	0.08	Enichem	HG3757A	VE-11	VE-11	42213	50	4	74.14	308	6.55	23.61
48201	2822	TBD	304.7380	3294.9700	15	15.24	1.22	426	23	43104	0.00	Enichem	HG3757A	VE-11	VE-11	42213	50	4	74.14	308	0.05	0.17
48201	4911	TBD	289.4900	3290.4000	15	39.62	1.60	422	1	42101	0.31	Calpine - Pasadena Power Plant	HG9954A	Auxiliary Boilers	B-1	32263	130	5.25	3.03	300	25.85	22.65
48201	4911	TBD	289.4900	3290.4000	15	39.62	1.60	422	1	42603	0.51	Calpine - Pasadena Power Plant	HG9954A	Auxiliary Boilers	B-1	32263	130	5.25	3.03	300	42.47	37.21
48201	4911	TBD	289.4900	3290.4000	15	39.62	1.60	422	1	43104	0.07	Calpine - Pasadena Power Plant	HG9954A	Auxiliary Boilers	B-1	32263	130	5.25	3.03	300	5.83	2.55
48201	4911	TBD	289.5000	3290.3330	15	38.10	5.03	358	22	42101	1.67	Calpine Corp.	HG9954A	CG-1	CG-1	32263	125	16.5	72	185	139	337.26
48201	4911	TBD	289.5000	3290.3330	15	38.10	5.03	358	22	42603	0.68	Calpine Corp.	HG9954A	CG-1	CG-1	32263	125	16.5	72	185	56.51	247.49
48201	4911	TBD	289.5000	3290.3330	15	38.10	5.03	358	22	43104	0.17	Calpine Corp.	HG9954A	CG-1	CG-1	32263	125	16.5	72	185	14.5	12.44
48201	4911	TBD	283.5860	3315.4160	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-1	TBD	43	1.67	98.3	829	15.5	67.89
48201	4911	TBD	283.5860	3315.4160	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-1	TBD	43	1.67	98.3	829	3.1	13.58
48201	4911	TBD	283.5860	3315.4160	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-1	TBD	43	1.67	98.3	829	1.45	6.35
48201	4911	TBD	283.5830	3315.4180	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-2	TBD	43	1.67	98.3	829	15.5	67.89
48201	4911	TBD	283.5830	3315.4180	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-2	TBD	43	1.67	98.3	829	3.1	13.58
48201	4911	TBD	283.5830	3315.4180	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-2	TBD	43	1.67	98.3	829	1.45	6.35
48201	4911	TBD	283.5790	3315.4200	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-3	TBD	43	1.67	98.3	829	15.5	67.89
48201	4911	TBD	283.5790	3315.4200	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-3	TBD	43	1.67	98.3	829	3.1	13.58
48201	4911	TBD	283.5790	3315.4200	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-3	TBD	43	1.67	98.3	829	1.45	6.35
48201	4911	TBD	283.5760	3315.4220	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-4	TBD	43	1.67	98.3	829	15.5	67.89
48201	4911	TBD	283.5760	3315.4220	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-4	TBD	43	1.67	98.3	829	3.1	13.58
48201	4911	TBD	283.5760	3315.4220	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-4	TBD	43	1.67	98.3	829	1.45	6.35
48201	4911	TBD	283.5730	3315.4240	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-5	TBD	43	1.67	98.3	829	15.5	67.89
48201	4911	TBD	283.5730	3315.4240	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-5	TBD	43	1.67	98.3	829	3.1	13.58
48201	4911	TBD	283.5730	3315.4240	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables	HGXXXXXX		E-5	TBD	43	1.67	98.3	829	1.45	6.35

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
												Atascocita, L.P.										
48201	4911	TBD	283.5690	3315.4260	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-6	TBD	43	1.67	98.3	829	15.5	67.89
48201	4911	TBD	283.5690	3315.4260	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-6	TBD	43	1.67	98.3	829	3.1	13.58
48201	4911	TBD	283.5690	3315.4260	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-6	TBD	43	1.67	98.3	829	1.45	6.35
48201	4911	TBD	283.5660	3315.4280	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-7	TBD	43	1.67	98.3	829	15.5	67.89
48201	4911	TBD	283.5660	3315.4280	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-7	TBD	43	1.67	98.3	829	3.1	13.58
48201	4911	TBD	283.5660	3315.4280	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Atascocita, L.P.	HGXXXXXX		E-7	TBD	43	1.67	98.3	829	1.45	6.35
48209	4911	20300203	597.5780	3294.7590	14	45.72	5.49	360	12	42101	1.26	Hays Energy Project	HK0108C	GT 24-1	Stack 1	40040	150	18	40.8	189	105	216.48
48209	4911	20300203	597.5780	3294.7590	14	45.72	5.49	360	12	42603	0.92	Hays Energy Project	HK0108C	GT 24-1	Stack 1	40040	150	18	40.8	189	77	152.80
48209	4911	20300203	597.5780	3294.7590	14	45.72	5.49	360	12	43104	0.24	Hays Energy Project	HK0108C	GT 24-1	Stack 1	40040	150	18	40.8	189	20.1	33.10
48209	4911	20300203	597.6366	3294.7422	14	45.72	5.49	360	12	42101	1.26	Hays Energy Project	HK0108C	GT 24-2	Stack 2	40040	150	18	40.8	189	105	216.48
48209	4911	20300203	597.6366	3294.7422	14	45.72	5.49	360	12	42603	0.92	Hays Energy Project	HK0108C	GT 24-2	Stack 2	40040	150	18	40.8	189	77	152.80
48209	4911	20300203	597.6366	3294.7422	14	45.72	5.49	360	12	43104	0.24	Hays Energy Project	HK0108C	GT 24-2	Stack 2	40040	150	18	40.8	189	20.1	33.10
48209	4911	20300203	597.7246	3294.7170	14	45.72	5.49	360	12	42101	1.26	Hays Energy Project	HK0108C	GT 24-3	Stack 3	40040	150	18	40.8	189	105	216.48
48209	4911	20300203	597.7246	3294.7170	14	45.72	5.49	360	12	42603	0.92	Hays Energy Project	HK0108C	GT 24-3	Stack 3	40040	150	18	40.8	189	77	152.80
48209	4911	20300203	597.7246	3294.7170	14	45.72	5.49	360	12	43104	0.24	Hays Energy Project	HK0108C	GT 24-3	Stack 3	40040	150	18	40.8	189	20.1	33.10
48209	4911	20300203	597.7832	3294.7002	14	45.72	5.49	360	12	42101	1.26	Hays Energy Project	HK0108C	GT 24-4	Stack 4	40040	150	18	40.8	189	105	216.48
48209	4911	20300203	597.7832	3294.7002	14	45.72	5.49	360	12	42603	0.92	Hays Energy Project	HK0108C	GT 24-4	Stack 4	40040	150	18	40.8	189	77	152.80
48209	4911	20300203	597.7832	3294.7002	14	45.72	5.49	360	12	43104	0.24	Hays Energy Project	HK0108C	GT 24-4	Stack 4	40040	150	18	40.8	189	20.1	33.10
48201	TBD	TBD	300.8230	3281.2060	15	3.05	1.00	311	0	42101	0.00	Initial DSI Transport	HX2290S		STACK1	40710	10	3.28	0.003	100	0	0.00
48201	TBD	TBD	300.8230	3281.2060	15	3.05	1.00	311	0	42603	0.00	Initial DSI Transport	HX2290S		STACK1	40710	10	3.28	0.003	100	0	0.00
48201	TBD	TBD	300.8230	3281.2060	15	3.05	1.00	311	0	43104	0.92	Initial DSI Transport	HX2290S		STACK1	40710	10	3.28	0.003	100	76.37	24.00
48201	4911	TBD	295.0810	3302.4550	15	38.10	5.79	361	20	42101	1.55	Reliant Energy Channelview, L.P.	HX2342B	CHVGT,#1-4	CHV,#1-4	41775	125	19	66.5	190	129.1	1221.60
48201	4911	TBD	295.0810	3302.4550	15	38.10	5.79	361	20	42603	1.02	Reliant Energy Channelview, L.P.	HX2342B	CHVGT,#1-4	CHV,#1-4	41775	125	19	66.5	190	85.2	365.60
48201	4911	TBD	295.0810	3302.4550	15	38.10	5.79	361	20	43104	0.27	Reliant Energy Channelview, L.P.	HX2342B	CHVGT,#1-4	CHV,#1-4	41775	125	19	66.5	190	22.4	122.00
48201	4911	TBD	285.5760	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK1	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.5760	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK1	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.5760	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK1	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.5760	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK1	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.5760	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK1	41802	150	18	75	347	2.9	15.60
48201	4911	TBD	285.5760	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK1	41802	150	18	75	347	2.9	15.60
48201	4911	TBD	285.5140	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK2	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.5140	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK2	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.5140	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK2	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.5140	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK2	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.5140	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK2	41802	150	18	75	347	2.9	15.60
48201	4911	TBD	285.5140	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK2	41802	150	18	75	347	2.9	15.60
48201	4911	TBD	285.4210	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK3	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.4210	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK3	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.4210	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK3	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.4210	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK3	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.4210	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK3	41802	150	18	75	347	2.9	15.60

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
48201	4911	TBD	285.4210	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK3	41802	150	18	75	347	2.9	15.60
48201	4911	TBD	285.3590	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK4	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.3590	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK4	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.3590	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK4	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.3590	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK4	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.3590	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK4	41802	150	18	75	347	2.9	15.60
48201	4911	TBD	285.3590	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK4	41802	150	18	75	347	2.9	15.60
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK5	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK5	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK5	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK5	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK5	41802	150	18	75	347	2.9	15.60
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK5	41802	150	18	75	347	2.9	15.60
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK6	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	42101	0.78	Chambers Energy	HX2346Q		STACK6	41802	150	18	75	347	65	181.90
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK6	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	42603	0.30	Chambers Energy	HX2346Q		STACK6	41802	150	18	75	347	24.9	118.90
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK6	41802	150	18	75	347	2.9	15.60
48201	4911	TBD	285.2590	3310.5160	15	45.72	5.49	448	23	43104	0.03	Chambers Energy	HX2346Q		STACK6	41802	150	18	75	347	2.9	15.60
48201	4911	TBD	283.9760	3289.4080	15	59.44	1.98	436	16	42101	0.31	Calpine Construction Finance Company, L.P.	HX2690V	AUXBOIL 1	AUXBOIL 1	42179	195	6.5	53.2	325	26.2	19.00
48201	4911	TBD	283.9760	3289.4080	15	59.44	1.98	436	16	42603	0.27	Calpine Construction Finance Company, L.P.	HX2690V	AUXBOIL 1	AUXBOIL 1	42179	195	6.5	53.2	325	22.8	19.70
48201	4911	TBD	283.9760	3289.4080	15	59.44	1.98	436	16	43104	0.09	Calpine Construction Finance Company, L.P.	HX2690V	AUXBOIL 1	AUXBOIL 1	42179	195	6.5	53.2	325	7.6	4.54
48201	4911	TBD	284.0280	3289.4080	15	59.44	1.98	436	16	42101	0.31	Calpine Construction Finance Company, L.P.	HX2690V	AUXBOIL 2	AUXBOIL 2	42179	195	6.5	53.2	325	26.2	19.00
48201	4911	TBD	284.0280	3289.4080	15	59.44	1.98	436	16	42603	0.27	Calpine Construction Finance Company, L.P.	HX2690V	AUXBOIL 2	AUXBOIL 2	42179	195	6.5	53.2	325	22.8	19.70
48201	4911	TBD	284.0280	3289.4080	15	59.44	1.98	436	16	43104	0.09	Calpine Construction Finance Company, L.P.	HX2690V	AUXBOIL 2	AUXBOIL 2	42179	195	6.5	53.2	325	7.6	4.54
48201	4911	TBD	284.0280	3289.4080	15	59.44	1.98	436	16	42101	0.31	Calpine Construction Finance Company, L.P.	HX2690V	AUXBOIL 3	AUXBOIL 3	42179	195	6.5	53.2	325	26.2	19.00
48201	4911	TBD	284.0280	3289.4080	15	59.44	1.98	436	16	42603	0.27	Calpine Construction Finance Company, L.P.	HX2690V	AUXBOIL 3	AUXBOIL 3	42179	195	6.5	53.2	325	22.8	19.70
48201	4911	TBD	284.0280	3289.4080	15	59.44	1.98	436	16	43104	0.09	Calpine Construction Finance Company, L.P.	HX2690V	AUXBOIL 3	AUXBOIL 3	42179	195	6.5	53.2	325	7.6	4.54
48201	4911	TBD	284.0290	3289.5320	15	64.92	6.10	355	18	42101	4.15	Calpine Construction Finance Company, L.P.	HX2690V	GTG/HRSG1	GTG/HRSG1	42179	213	20	59	180	346	440.00
48201	4911	TBD	284.0290	3289.5320	15	64.92	6.10	355	18	42603	0.66	Calpine Construction Finance Company, L.P.	HX2690V	GTG/HRSG1	GTG/HRSG1	42179	213	20	59	180	55	104.40
48201	4911	TBD	284.0290	3289.5320	15	64.92	6.10	355	18	43104	0.32	Calpine Construction Finance Company, L.P.	HX2690V	GTG/HRSG1	GTG/HRSG1	42179	213	20	59	180	26.9	44.30
48201	4911	TBD	284.0720	3289.5320	15	64.92	6.10	355	18	42101	4.15	Calpine Construction Finance Company,	HX2690V	GTG/HRSG2	GTG/HRSG2	42179	213	20	59	180	346	440.00

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
												L.P.										
48201	4911	TBD	284.0720	3289.5320	15	64.92	6.10	355	18	42603	0.66	Calpine Construction Finance Company, L.P.	HX2690V	GTG/HRSG2	GTG/HRSG2	42179	213	20	59	180	55	104.40
48201	4911	TBD	284.0720	3289.5320	15	64.92	6.10	355	18	43104	0.32	Calpine Construction Finance Company, L.P.	HX2690V	GTG/HRSG2	GTG/HRSG2	42179	213	20	59	180	26.9	44.30
48201	4911	TBD	284.1120	3289.5320	15	64.92	6.10	355	18	42101	4.15	Calpine Construction Finance Company, L.P.	HX2690V	GTG/HRSG3	GTG/HRSG3	42179	213	20	59	180	346	440.00
48201	4911	TBD	284.1120	3289.5320	15	64.92	6.10	355	18	42603	0.66	Calpine Construction Finance Company, L.P.	HX2690V	GTG/HRSG3	GTG/HRSG3	42179	213	20	59	180	55	104.40
48201	4911	TBD	284.1120	3289.5320	15	64.92	6.10	355	18	43104	0.32	Calpine Construction Finance Company, L.P.	HX2690V	GTG/HRSG3	GTG/HRSG3	42179	213	20	59	180	26.9	44.30
48241	4911	20300203	397.5950	3357.3100	14	13.72	2.74	411	24	42101	0.26	Westvaco Texas, L.P.	JC0003K	T-01	T-01	43178	45	9	79.13	280	21.3	93.29
48241	4911	20300203	397.5950	3357.3100	14	13.72	2.74	411	24	42603	0.18	Westvaco Texas, L.P.	JC0003K	T-01	T-01	43178	45	9	79.13	280	14.6	63.95
48241	4911	20300203	397.5950	3357.3100	14	13.72	2.74	411	24	43104	0.03	Westvaco Texas, L.P.	JC0003K	T-01	T-01	43178	45	9	79.13	280	2.2	9.64
48241	4911	20300203	397.5950	3357.3100	14	13.72	2.74	411	24	42101	0.25	Westvaco Texas, L.P.	JC0003K	T-02	T-02	43178	45	9	79.13	280	20.5	89.79
48241	4911	20300203	397.5950	3357.3100	14	13.72	2.74	411	24	42603	0.10	Westvaco Texas, L.P.	JC0003K	T-02	T-02	43178	45	9	79.13	280	8.1	35.48
48241	4911	20300203	397.5950	3357.3100	14	13.72	2.74	411	24	43104	0.03	Westvaco Texas, L.P.	JC0003K	T-02	T-02	43178	45	9	79.13	280	2.2	9.64
48245	2911	TBD	414.5870	3313.5250	15	15.24	0.30	293	0	43104	0.15	Fina Oil & Chemical Company	JE0005H	F-2	F-2	36644	50	1	0.001	68	12.6	55.19
48245	2911	TBD	414.6070	3313.6790	15	47.24	2.45	424	12	42101	0.28	Fina Oil & Chemical Company	JE0005H	H-0100	N-1	36644	155	8.03	39.62	304	23.25	101.85
48245	2911	TBD	414.6070	3313.6790	15	47.24	2.45	424	12	42603	0.29	Fina Oil & Chemical Company	JE0005H	H-0100	N-1	36644	155	8.03	39.62	304	24.16	79.37
48245	2911	TBD	414.6070	3313.6790	15	47.24	2.45	424	12	43104	0.01	Fina Oil & Chemical Company	JE0005H	H-0100	N-1	36644	155	8.03	39.62	304	0.57	2.51
48245	2911	TBD	414.6950	3313.8060	15	16.76	1.07	672	13	42101	0.01	Fina Oil & Chemical Company	JE0005H	H-6101	N-12	36644	55	3.5	44	750	0.69	3.02
48245	2911	TBD	414.6950	3313.8060	15	16.76	1.07	672	13	42603	0.06	Fina Oil & Chemical Company	JE0005H	H-6101	N-12	36644	55	3.5	44	750	5.01	13.71
48245	2911	TBD	414.6950	3313.8060	15	16.76	1.07	672	13	43104	0.00	Fina Oil & Chemical Company	JE0005H	H-6101	N-12	36644	55	3.5	44	750	0.17	0.74
48245	2911	TBD	414.7160	3313.8060	15	45.72	2.13	436	18	42101	0.34	Fina Oil & Chemical Company	JE0005H	B-7201A	N-14A	36644	150	7	60	325	28.7	125.72
48245	2911	TBD	414.7160	3313.8060	15	45.72	2.13	436	18	42603	0.30	Fina Oil & Chemical Company	JE0005H	B-7201A	N-14A	36644	150	7	60	325	24.96	91.10
48245	2911	TBD	414.7160	3313.8060	15	45.72	2.13	436	18	43104	0.03	Fina Oil & Chemical Company	JE0005H	B-7201A	N-14A	36644	150	7	60	325	2.91	12.75
48245	2911	TBD	414.7300	3313.8230	15	45.72	2.13	436	18	42101	0.34	Fina Oil & Chemical Company	JE0005H	B-7201B	N-14B	36644	150	7	60	325	28.7	125.72
48245	2911	TBD	414.7300	3313.8230	15	45.72	2.13	436	18	42603	0.30	Fina Oil & Chemical Company	JE0005H	B-7201B	N-14B	36644	150	7	60	325	24.96	91.10
48245	2911	TBD	414.7300	3313.8230	15	45.72	2.13	436	18	43104	0.03	Fina Oil & Chemical Company	JE0005H	B-7201B	N-14B	36644	150	7	60	325	2.91	12.75
48245	2911	TBD	415.1150	3314.8290	15	121.92	1.52	311	0	42101	0.04	Fina Oil & Chemical Company	JE0005H	PA-2201	N-15	36644	400	5	0.06	100	3.3	9.21
48245	2911	TBD	415.1150	3314.8290	15	121.92	1.52	311	0	42603	0.01	Fina Oil & Chemical Company	JE0005H	PA-2201	N-15	36644	400	5	0.06	100	0.45	1.27
48245	2911	TBD	415.1150	3314.8290	15	121.92	1.52	311	0	43104	0.06	Fina Oil & Chemical Company	JE0005H	PA-2201	N-15	36644	400	5	0.06	100	5.23	5.02
48245	2911	TBD	414.6410	3313.6180	15	15.24	0.46	805	26	42101	0.09	Fina Oil & Chemical Company	JE0005H	N-16	N-16	36644	50	1.5	85	990	7.9	0.62
48245	2911	TBD	414.6410	3313.6180	15	15.24	0.46	805	26	42603	0.44	Fina Oil & Chemical	JE0005H	N-16	N-16	36644	50	1.5	85	990	36.68	2.86

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
												Company										
48245	2911	TBD	414.6410	3313.6180	15	15.24	0.46	805	26	43104	0.04	Fina Oil & Chemical Company	JE0005H	N-16	N-16	36644	50	1.5	85	990	2.97	0.23
48245	2911	TBD	414.0570	3315.0880	15	30.48	2.13	700	12	42101	0.03	Fina Oil & Chemical Company	JE0005H	40 H-1	N-17	36644	100	7	38.5	800	2.32	10.17
48245	2911	TBD	414.0570	3315.0880	15	30.48	2.13	700	12	42603	0.20	Fina Oil & Chemical Company	JE0005H	40 H-1	N-17	36644	100	7	38.5	800	16.89	46.22
48245	2911	TBD	414.0570	3315.0880	15	30.48	2.13	700	12	43104	0.01	Fina Oil & Chemical Company	JE0005H	40 H-1	N-17	36644	100	7	38.5	800	0.57	2.50
48245	2911	TBD	414.6410	3313.6990	15	44.20	1.37	672	19	42101	8.64	Fina Oil & Chemical Company	JE0005H	D1801	N-18	36644	145	4.5	62	750	720	27.88
48245	2911	TBD	414.6170	3313.6910	15	47.24	2.68	473	13	42101	0.41	Fina Oil & Chemical Company	JE0005H	H-0200	N-2	36644	155	8.8	42.5	392	34.01	148.97
48245	2911	TBD	414.6170	3313.6910	15	47.24	2.68	473	13	42603	0.42	Fina Oil & Chemical Company	JE0005H	H-0200	N-2	36644	155	8.8	42.5	392	35.34	116.08
48245	2911	TBD	414.6170	3313.6910	15	47.24	2.68	473	13	43104	0.01	Fina Oil & Chemical Company	JE0005H	H-0200	N-2	36644	155	8.8	42.5	392	0.84	3.68
48245	2911	TBD	414.6230	3313.6990	15	47.24	2.68	473	13	42101	0.41	Fina Oil & Chemical Company	JE0005H	H-0300	N-3	36644	155	8.8	42.5	392	34.01	148.97
48245	2911	TBD	414.6230	3313.6990	15	47.24	2.68	473	13	42603	0.42	Fina Oil & Chemical Company	JE0005H	H-0300	N-3	36644	155	8.8	42.5	392	35.34	116.08
48245	2911	TBD	414.6230	3313.6990	15	47.24	2.68	473	13	43104	0.01	Fina Oil & Chemical Company	JE0005H	H-0300	N-3	36644	155	8.8	42.5	392	0.84	3.68
48245	2911	TBD	414.6330	3313.7100	15	47.24	2.68	472	13	42101	0.41	Fina Oil & Chemical Company	JE0005H	H-0400	N-4	36644	155	8.8	42.5	390	34.01	148.97
48245	2911	TBD	414.6330	3313.7100	15	47.24	2.68	472	13	42603	0.42	Fina Oil & Chemical Company	JE0005H	H-0400	N-4	36644	155	8.8	42.5	390	35.34	116.08
48245	2911	TBD	414.6330	3313.7100	15	47.24	2.68	472	13	43104	0.01	Fina Oil & Chemical Company	JE0005H	H-0400	N-4	36644	155	8.8	42.5	390	0.84	3.68
48245	2911	TBD	414.6390	3313.7180	15	47.24	2.68	473	13	42101	0.41	Fina Oil & Chemical Company	JE0005H	H-0500	N-5	36644	155	8.8	42.5	392	34.01	148.97
48245	2911	TBD	414.6390	3313.7180	15	47.24	2.68	473	13	42603	0.42	Fina Oil & Chemical Company	JE0005H	H-0500	N-5	36644	155	8.8	42.5	392	35.34	116.08
48245	2911	TBD	414.6390	3313.7180	15	47.24	2.68	473	13	43104	0.01	Fina Oil & Chemical Company	JE0005H	H-0500	N-5	36644	155	8.8	42.5	392	0.84	3.68
48245	2911	TBD	414.6490	3313.7300	15	47.24	2.68	473	13	42101	0.41	Fina Oil & Chemical Company	JE0005H	H-0600	N-6	36644	155	8.8	42.5	392	34.01	148.97
48245	2911	TBD	414.6490	3313.7300	15	47.24	2.68	473	13	42603	0.42	Fina Oil & Chemical Company	JE0005H	H-0600	N-6	36644	155	8.8	42.5	392	35.34	116.08
48245	2911	TBD	414.6490	3313.7300	15	47.24	2.68	473	13	43104	0.01	Fina Oil & Chemical Company	JE0005H	H-0600	N-6	36644	155	8.8	42.5	392	0.84	3.68
48245	2911	TBD	414.6550	3313.7370	15	47.24	2.68	473	13	42101	0.41	Fina Oil & Chemical Company	JE0005H	H-0700	N-7	36644	155	8.8	42.5	392	34.01	148.97
48245	2911	TBD	414.6550	3313.7370	15	47.24	2.68	473	13	42603	0.42	Fina Oil & Chemical Company	JE0005H	H-0700	N-7	36644	155	8.8	42.5	392	35.34	116.08
48245	2911	TBD	414.6550	3313.7370	15	47.24	2.68	473	13	43104	0.01	Fina Oil & Chemical Company	JE0005H	H-0700	N-7	36644	155	8.8	42.5	392	0.84	3.68
48245	2911	TBD	414.6650	3313.7490	15	47.24	2.68	473	13	42101	0.41	Fina Oil & Chemical Company	JE0005H	H-0800	N-8	36644	155	8.8	42.5	392	34.01	148.97
48245	2911	TBD	414.6650	3313.7490	15	47.24	2.68	473	13	42603	0.42	Fina Oil & Chemical Company	JE0005H	H-0800	N-8	36644	155	8.8	42.5	392	35.34	116.08
48245	2911	TBD	414.6650	3313.7490	15	47.24	2.68	473	13	43104	0.01	Fina Oil & Chemical Company	JE0005H	H-0800	N-8	36644	155	8.8	42.5	392	0.84	3.68
48245	2911	TBD	414.6710	3313.7580	15	47.24	2.68	473	13	42101	0.41	Fina Oil & Chemical Company	JE0005H	H-0900	N-9	36644	155	8.8	42.5	392	34.01	148.97
48245	2911	TBD	414.6710	3313.7580	15	47.24	2.68	473	13	42603	0.42	Fina Oil & Chemical Company	JE0005H	H-0900	N-9	36644	155	8.8	42.5	392	35.34	116.08

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
48245	2911	TBD	414.6710	3313.7580	15	47.24	2.68	473	13	43104	0.01	Fina Oil & Chemical Company	JE0005H	H-0900	N-9	36644	155	8.8	42.5	392	0.84	3.68
48245	2911	20300203	414.6710	3313.7580	15	45.72	5.49	360	12	42101	1.04	Fina Oil & Chemical Company	JE0005H	Cogen	TBN (6)	36644	150	18	40.8	189	86.8	216.48
48245	2911	20300203	414.6710	3313.7580	15	45.72	5.49	360	12	42603	0.11	Fina Oil & Chemical Company	JE0005H	Cogen	TBN (6)	36644	150	18	40.8	189	8.79	152.80
48245	2911	20300203	414.6710	3313.7580	15	45.72	5.49	360	12	43104	0.78	Fina Oil & Chemical Company	JE0005H	Cogen	TBN (6)	36644	150	18	40.8	189	65.3	33.10
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42101	0.17	The Goodyear Tire and Rubber Co	JE0039N	832S-B109	832S-B109	20040	60	4	72.6	286	13.85	56.45
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	The Goodyear Tire and Rubber Co	JE0039N	832S-B109	832S-B109	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	43104	0.02	The Goodyear Tire and Rubber Co	JE0039N	832S-B109	832S-B109	20040	60	4	72.6	286	1.33	5.72
48245	4911	TBD	383.1320	3316.7290	15	18.29	1.22	414	22	42101	0.17	The Goodyear Tire and Rubber Co	JE0039N	832S-B110	832S-B110	20040	60	4	72.6	286	13.85	56.45
48245	4911	TBD	383.1320	3316.7290	15	18.29	1.22	414	22	42603	0.20	The Goodyear Tire and Rubber Co	JE0039N	832S-B110	832S-B110	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1320	3316.7290	15	18.29	1.22	414	22	43104	0.02	The Goodyear Tire and Rubber Co	JE0039N	832S-B110	832S-B110	20040	60	4	72.6	286	1.33	5.72
48245	4911	TBD	383.1360	3316.7210	15	18.29	1.22	414	22	42101	0.17	The Goodyear Tire and Rubber Co	JE0039N	832S-B111	832S-B111	20040	60	4	72.6	286	13.85	56.45
48245	4911	TBD	383.1360	3316.7210	15	18.29	1.22	414	22	42603	0.20	The Goodyear Tire and Rubber Co	JE0039N	832S-B111	832S-B111	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1360	3316.7210	15	18.29	1.22	414	22	43104	0.02	The Goodyear Tire and Rubber Co	JE0039N	832S-B111	832S-B111	20040	60	4	72.6	286	1.33	5.72
48245	4911	TBD	383.1410	3316.7170	15	18.29	1.22	414	22	42101	0.17	The Goodyear Tire and Rubber Co	JE0039N	832S-B112	832S-B112	20040	60	4	72.6	286	13.85	56.45
48245	4911	TBD	383.1410	3316.7170	15	18.29	1.22	414	22	42603	0.20	The Goodyear Tire and Rubber Co	JE0039N	832S-B112	832S-B112	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1410	3316.7170	15	18.29	1.22	414	22	43104	0.02	The Goodyear Tire and Rubber Co	JE0039N	832S-B112	832S-B112	20040	60	4	72.6	286	1.33	5.72
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42101	0.17	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	13.85	56.45
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire &	JE0039N		STACK1	20040	60	4	72.6	286	16.49	68.77

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
												Rubber										
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1270	3316.7290	15	18.29	1.22	414	22	43104	0.02	Goodyear Tire & Rubber	JE0039N		STACK1	20040	60	4	72.6	286	1.33	5.72
48245	4911	TBD	383.1330	3316.7250	15	18.29	1.22	414	22	42101	0.17	Goodyear Tire & Rubber	JE0039N		STACK2	20040	60	4	72.6	286	13.85	56.45
48245	4911	TBD	383.1330	3316.7250	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK2	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1330	3316.7250	15	18.29	1.22	414	22	43104	0.02	Goodyear Tire & Rubber	JE0039N		STACK2	20040	60	4	72.6	286	1.33	5.72
48245	4911	TBD	383.1370	3316.7210	15	18.29	1.22	414	22	42101	0.17	Goodyear Tire & Rubber	JE0039N		STACK3	20040	60	4	72.6	286	13.85	56.45
48245	4911	TBD	383.1370	3316.7210	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK3	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1370	3316.7210	15	18.29	1.22	414	22	43104	0.02	Goodyear Tire & Rubber	JE0039N		STACK3	20040	60	4	72.6	286	1.33	5.72
48245	4911	TBD	383.1410	3316.7170	15	18.29	1.22	414	22	42101	0.17	Goodyear Tire & Rubber	JE0039N		STACK4	20040	60	4	72.6	286	13.85	56.45
48245	4911	TBD	383.1410	3316.7170	15	18.29	1.22	414	22	42603	0.20	Goodyear Tire & Rubber	JE0039N		STACK4	20040	60	4	72.6	286	16.49	68.77
48245	4911	TBD	383.1410	3316.7170	15	18.29	1.22	414	22	43104	0.02	Goodyear Tire & Rubber	JE0039N		STACK4	20040	60	4	72.6	286	1.33	5.72
48245	2911	TBD	397.8390	3327.0940	15	48.77	2.74	535	7	42101	0.07	Mobil Chemical Corporation	JE0062S	Reboiler B-9401	EH-9401	18838	160	9	23	504	6.13	21.41
48245	2911	TBD	397.8390	3327.0940	15	48.77	2.74	535	7	42603	0.18	Mobil Chemical Corporation	JE0062S	Reboiler B-9401	EH-9401	18838	160	9	23	504	15.32	53.52
48245	2911	TBD	397.8390	3327.0940	15	48.77	2.74	535	7	43104	0.01	Mobil Chemical Corporation	JE0062S	Reboiler B-9401	EH-9401	18838	160	9	23	504	0.43	1.51
48245	2911	TBD	396.2650	3325.7900	15	60.96	3.66	436	15	42101	1.00	Mobil Beaumont Refinery	JE0067I	56BLR#023	56STK023	20862	200	12	50.4	325	82.95	176.41
48245	2911	TBD	396.2650	3325.7900	15	60.96	3.66	436	15	42603	0.81	Mobil Beaumont Refinery	JE0067I	56BLR#023	56STK023	20862	200	12	50.4	325	67.26	143.03
48245	2911	TBD	396.2650	3325.7900	15	60.96	3.66	436	15	43104	0.03	Mobil Beaumont Refinery	JE0067I	56BLR#023	56STK023	20862	200	12	50.4	325	2.24	4.77
48245	2911	TBD	396.2670	3326.1240	15	38.10	5.79	352	18	42101	2.00	Mobil Beaumont Refinery	JE0067I	61TRB#001	61STK001	20862	125	19	58.6	175	166.83	369.33
48245	2911	TBD	396.2670	3326.1240	15	38.10	5.79	352	18	42603	0.99	Mobil Beaumont Refinery	JE0067I	61TRB#001	61STK001	20862	125	19	58.6	175	82.73	212.03
48245	2911	TBD	396.2670	3326.1240	15	38.10	5.79	352	18	43104	0.32	Mobil Beaumont Refinery	JE0067I	61TRB#001	61STK001	20862	125	19	58.6	175	26.97	87.69
48245	2911	TBD	396.2360	3326.1240	15	38.10	5.79	352	18	42101	2.00	Mobil Beaumont Refinery	JE0067I	61TRB#002	61STK002	20862	125	19	58.6	175	166.83	369.33
48245	2911	TBD	396.2360	3326.1240	15	38.10	5.79	352	18	42603	0.99	Mobil Beaumont Refinery	JE0067I	61TRB#002	61STK002	20862	125	19	58.6	175	82.73	212.03
48245	2911	TBD	396.2360	3326.1240	15	38.10	5.79	352	18	43104	0.32	Mobil Beaumont Refinery	JE0067I	61TRB#002	61STK002	20862	125	19	58.6	175	26.97	87.69
48245	2911	TBD	396.1720	3326.1240	15	38.10	5.79	352	18	42101	2.00	Mobil Beaumont Refinery	JE0067I	61TRB#003	61STK003	20862	125	19	58.6	175	166.83	369.33
48245	2911	TBD	396.1720	3326.1240	15	38.10	5.79	352	18	43104	0.32	Mobil Beaumont Refinery	JE0067I	61TRB#003	61STK003	20862	125	19	58.6	175	26.97	87.69
48245	2911	TBD	396.1720	3326.1240	15	38.10	5.79	352	18	43603	0.99	Mobil Beaumont Refinery	JE0067I	61TRB#003	61STK003	20862	125	19	58.6	175	82.73	212.03
48291	4911	TBD	304.8590	3325.2790	15	36.58	5.79	355	19	42101	1.40	Cedar Power Partners	LH0232T		STACK1	44175	120	19	63.2	179	116.8	409.00
48291	4911	TBD	304.8590	3325.2790	15	36.58	5.79	355	19	42603	0.48	Cedar Power Partners	LH0232T		STACK1	44175	120	19	63.2	179	39.75	100.80
48291	4911	TBD	304.8590	3325.2790	15	36.58	5.79	355	19	43104	0.29	Cedar Power Partners	LH0232T		STACK1	44175	120	19	63.2	179	23.9	39.83
48291	4911	TBD	304.8720	3325.2400	15	36.58	5.79	355	19	42101	1.40	Cedar Power Partners	LH0232T		STACK2	44175	120	19	63.2	179	116.8	409.00

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
48291	4911	TBD	304.8720	3325.2400	15	36.58	5.79	355	19	42603	0.48	Cedar Power Partners	LH0232T		STACK2	44175	120	19	63.2	179	39.75	100.80
48291	4911	TBD	304.8720	3325.2400	15	36.58	5.79	355	19	43104	0.29	Cedar Power Partners	LH0232T		STACK2	44175	120	19	63.2	179	23.9	39.83
48339	4911	TBD	234.6000	3358.1980	15	36.58	5.79	355	19	42101	1.39	McEnergy Partners	MQ0625A		STACK1	44174	120	19	63.2	179	116.16	407.00
48339	4911	TBD	234.6000	3358.1980	15	36.58	5.79	355	19	42603	0.47	McEnergy Partners	MQ0625A		STACK1	44174	120	19	63.2	179	39.5	100.20
48339	4911	TBD	234.6000	3358.1980	15	36.58	5.79	355	19	43104	0.29	McEnergy Partners	MQ0625A		STACK1	44174	120	19	63.2	179	23.9	39.73
48339	4911	TBD	234.5990	3358.1570	15	36.58	5.79	355	19	42101	1.39	McEnergy Partners	MQ0625A		STACK2	44174	120	19	63.2	179	116.16	407.00
48339	4911	TBD	234.5990	3358.1570	15	36.58	5.79	355	19	42603	0.47	McEnergy Partners	MQ0625A		STACK2	44174	120	19	63.2	179	39.5	100.20
48339	4911	TBD	234.5990	3358.1570	15	36.58	5.79	355	19	43104	0.29	McEnergy Partners	MQ0625A		STACK2	44174	120	19	63.2	179	23.9	39.73
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	42101	1.93	Cottonwood Energy Co.	NC0056N	Stack 1	Stack 1	43890	130	18	56	170	160.9	455.50
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	42603	0.59	Cottonwood Energy Co.	NC0056N	Stack 1	Stack 1	43890	130	18	54.7	170	48.9	191.80
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	43104	0.20	Cottonwood Energy Co.	NC0056N	Stack 1	Stack 1	43890	130	18	56	170	16.6	45.30
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	42101	1.93	Cottonwood Energy Co.	NC0056N	Stack 2	Stack 2	43890	130	18	56	170	160.9	455.50
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	42603	0.59	Cottonwood Energy Co.	NC0056N	Stack 2	Stack 2	43890	130	18	54.7	170	48.9	191.80
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	43104	0.20	Cottonwood Energy Co.	NC0056N	Stack 2	Stack 2	43890	130	18	56	170	16.6	45.30
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	42101	1.93	Cottonwood Energy Co.	NC0056N	Stack 3	Stack 3	43890	130	18	56	170	160.9	455.50
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	42603	0.59	Cottonwood Energy Co.	NC0056N	Stack 3	Stack 3	43890	130	18	54.7	170	48.9	191.80
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	43104	0.20	Cottonwood Energy Co.	NC0056N	Stack 3	Stack 3	43890	130	18	56	170	16.6	45.30
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	42101	1.93	Cottonwood Energy Co.	NC0056N	Stack 4	Stack 4	43890	130	18	56	170	160.9	455.50
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	42603	0.59	Cottonwood Energy Co.	NC0056N	Stack 4	Stack 4	43890	130	18	54.7	170	48.9	191.80
48351	4911	20300203	419.9999	3365.9999	15	39.62	5.49	350	17	43104	0.20	Cottonwood Energy Co.	NC0056N	Stack 4	Stack 4	43890	130	18	56	170	16.6	45.30
48355	2911	30600904	648.9700	3077.5600	14	2.74	0.21	1272	20	42101	1.12	Valero Refining Company	NE0112G	Ground Flare	158	38754	9	0.69	65.62	1831	93.6	14.28
48355	2911	30600904	648.9700	3077.5600	14	2.74	0.21	1272	20	42603	0.18	Valero Refining Company	NE0112G	Ground Flare	158	38754	9	0.69	65.62	1831	15	3.00
48355	2911	30600904	648.9700	3077.5600	14	2.74	0.21	1272	20	43104	0.54	Valero Refining Company	NE0112G	Ground Flare	158	38754	9	0.69	65.62	1831	45.2	7.92
48355	2911	30600104	645.4810	3079.2600	14	30.48	2.44	408	6	42101	0.27	Koch Petroleum Group	NE0122D	BA-4 Hot Oil Heater	D-3	9516	100	8	18.3	275	22.26	97.50
48355	2911	30600104	645.4810	3079.2600	14	30.48	2.44	408	6	42603	0.21	Koch Petroleum Group	NE0122D	BA-4 Hot Oil Heater	D-3	9516	100	8	18.3	275	17.81	78.00
48355	2911	30600104	645.4810	3079.2600	14	30.48	2.44	408	6	43104	0.00	Koch Petroleum Group	NE0122D	BA-4 Hot Oil Heater	D-3	9516	100	8	18.3	275	0.33	1.44
48355	2911	30600104	645.4810	3079.2600	14	30.48	2.44	408	6	42101	0.08	Koch Petroleum Group	NE0122D	BA-5 Hot Oil Heater	D-3	9516	100	8	18.3	275	6.68	29.26
48355	2911	30600104	645.4810	3079.2600	14	30.48	2.44	408	6	42603	0.06	Koch Petroleum Group	NE0122D	BA-5 Hot Oil Heater	D-3	9516	100	8	18.3	275	5.35	23.41
48355	2911	30600104	645.4810	3079.2600	14	30.48	2.44	408	6	43104	0.00	Koch Petroleum Group	NE0122D	BA-5 Hot Oil Heater	D-3	9516	100	8	18.3	275	0.19	0.83
48361	2869	TBD	426.9530	3325.1670	15	38.10	5.79	361	16	42101	1.09	E.I. Du Pont de Nemours &Co., Inc.	OC0007J	CTG-1	CTG-1	40496	125	19	53.5	190	90.49	1172.75
48361	2869	TBD	426.9530	3325.1670	15	38.10	5.79	361	16	42603	0.50	E.I. Du Pont de Nemours &Co., Inc.	OC0007J	CTG-1	CTG-1	40496	125	19	53.5	190	41.4	189.76
48361	2869	TBD	426.9530	3325.1670	15	38.10	5.79	361	16	43104	0.12	E.I. Du Pont de Nemours &Co., Inc.	OC0007J	CTG-1	CTG-1	40496	125	19	53.5	190	9.83	32.70
48361	2869	TBD	426.9530	3325.1670	15	38.10	5.79	361	16	42101	1.09	E.I. Du Pont de Nemours &Co., Inc.	OC0007J	CTG-2	CTG-2	40496	125	19	53.5	190	90.49	1172.75
48361	2869	TBD	426.9530	3325.1670	15	38.10	5.79	361	16	42603	0.50	E.I. Du Pont de Nemours &Co., Inc.	OC0007J	CTG-2	CTG-2	40496	125	19	53.5	190	41.4	189.76
48361	2869	TBD	426.9530	3325.1670	15	38.10	5.79	361	16	43104	0.12	E.I. Du Pont de Nemours &Co., Inc.	OC0007J	CTG-2	CTG-2	40496	125	19	53.5	190	9.83	32.70
48361	4911	20300203	425.6450	3223.7830	15	21.34	3.66	353	14	42101	0.28	Reliant Energy Power	OC0363H	SAB-1	SAB-1	36889	70	12	44.9	176	23.7	46.40

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
												Generation, Inc.										
48361	4911	20300203	425.6450	3223.7830	15	21.34	3.66	353	14	42603	0.28	Reliant Energy Power Generation, Inc.	OC0363H	SAB-1	SAB-1	36889	70	12	44.9	176	23.4	46.40
48361	4911	20300203	425.6450	3223.7830	15	21.34	3.66	353	14	43104	0.05	Reliant Energy Power Generation, Inc.	OC0363H	SAB-1	SAB-1	36889	70	12	44.9	176	4.2	13.60
48361	4911	20300203	425.6910	3223.8080	15	21.34	3.66	353	14	42101	0.28	Reliant Energy Power Generation, Inc.	OC0363H	SAB-2	SAB-2	36889	70	12	44.9	176	23.7	46.40
48361	4911	20300203	425.6910	3223.8080	15	21.34	3.66	353	14	42603	0.28	Reliant Energy Power Generation, Inc.	OC0363H	SAB-2	SAB-2	36889	70	12	44.9	176	23.4	46.40
48361	4911	20300203	425.6910	3223.8080	15	21.34	3.66	353	14	43104	0.05	Reliant Energy Power Generation, Inc.	OC0363H	SAB-2	SAB-2	36889	70	12	44.9	176	4.2	13.60
48401	4911	20300203	347.0770	3543.3150	15	46.63	5.49	408	23	42101	1.81	Tenaska Inc.	RL0171L	GTDB1	GTDB1	40039	153	18	75	275	150.5	378.27
48401	4911	20300203	347.0770	3543.3150	15	46.63	5.49	408	23	42603	4.55	Tenaska Inc.	RL0171L	GTDB1	GTDB1	40039	153	18	75	275	379	471.40
48401	4911	20300203	347.0770	3543.3150	15	46.63	5.49	408	23	43104	0.33	Tenaska Inc.	RL0171L	GTDB1	GTDB1	40039	153	18	75	275	27.3	54.80
48401	4911	20300203	347.0770	3543.3540	15	46.63	5.49	408	23	42101	1.81	Tenaska Inc.	RL0171L	GTDB2	GTDB2	40039	153	18	75	275	150.5	378.30
48401	4911	20300203	347.0770	3543.3540	15	46.63	5.49	408	23	42603	4.55	Tenaska Inc.	RL0171L	GTDB2	GTDB2	40039	153	18	75	275	379	471.40
48401	4911	20300203	347.0770	3543.3540	15	46.63	5.49	408	23	43104	0.33	Tenaska Inc.	RL0171L	GTDB2	GTDB2	40039	153	18	75	275	27.3	54.80
48401	4911	20300203	347.0770	3543.3940	15	46.63	5.49	408	23	42101	1.81	Tenaska Inc.	RL0171L	GTDB3	GTDB3	40039	153	18	75	275	150.5	378.30
48401	4911	20300203	347.0770	3543.3940	15	46.63	5.49	408	23	42603	4.55	Tenaska Inc.	RL0171L	GTDB3	GTDB3	40039	153	18	75	275	379	471.40
48401	4911	20300203	347.0770	3543.3940	15	46.63	5.49	408	23	43104	0.33	Tenaska Inc.	RL0171L	GTDB3	GTDB3	40039	153	18	75	275	27.3	54.80
48167	4911	TBD	287.7980	3257.8710	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-1	TBD	43	1.67	98.3	829	15.5	67.89
48167	4911	TBD	287.7980	3257.8710	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-1	TBD	43	1.67	98.3	829	3.1	13.58
48167	4911	TBD	287.7980	3257.8710	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-1	TBD	43	1.67	98.3	829	1.45	6.35
48167	4911	TBD	287.7980	3257.8670	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-2	TBD	43	1.67	98.3	829	15.5	67.89
48167	4911	TBD	287.7980	3257.8670	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-2	TBD	43	1.67	98.3	829	3.1	13.58
48167	4911	TBD	287.7980	3257.8670	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-2	TBD	43	1.67	98.3	829	1.45	6.35
48167	4911	TBD	287.7980	3257.8630	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-3	TBD	43	1.67	98.3	829	15.5	67.89
48167	4911	TBD	287.7980	3257.8630	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-3	TBD	43	1.67	98.3	829	3.1	13.58
48167	4911	TBD	287.7980	3257.8630	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-3	TBD	43	1.67	98.3	829	1.45	6.35
48167	4911	TBD	287.7980	3257.8600	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-4	TBD	43	1.67	98.3	829	15.5	67.89
48167	4911	TBD	287.7980	3257.8600	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-4	TBD	43	1.67	98.3	829	3.1	13.58
48167	4911	TBD	287.7980	3257.8600	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Coastal	TBD		E-4	TBD	43	1.67	98.3	829	1.45	6.35

Table H-4. Modeling Parameters for New Sources

FIPS	SIC	SCC	Easting (km)	Northing (km)	UTM Zone	Stack Height (m)	Stack Diameter (m)	Stack Exit Temp (K)	Stack Exit Velocity (mps)	Pollutant Code	Emission Rate (TPD)	Owner	Account	FIN	EPN	Permit Number	Stack Height (ft)	Diam (ft)	Vel. (fps)	Temp (F)	Hourly Limit (pph)	Annual Limit (TPY)
												Plains, L.P.										
48167	4911	TBD	287.7980	3257.8560	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-5	TBD	43	1.67	98.3	829	15.5	67.89
48167	4911	TBD	287.7980	3257.8560	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-5	TBD	43	1.67	98.3	829	3.1	13.58
48167	4911	TBD	287.7980	3257.8560	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-5	TBD	43	1.67	98.3	829	1.45	6.35
48167	4911	TBD	287.7980	3257.8530	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-6	TBD	43	1.67	98.3	829	15.5	67.89
48167	4911	TBD	287.7980	3257.8530	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-6	TBD	43	1.67	98.3	829	3.1	13.58
48167	4911	TBD	287.7980	3257.8530	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-6	TBD	43	1.67	98.3	829	1.45	6.35
48167	4911	TBD	287.7980	3257.8490	15	13.11	0.51	716	30	42101	0.19	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-7	TBD	43	1.67	98.3	829	15.5	67.89
48167	4911	TBD	287.7980	3257.8490	15	13.11	0.51	716	30	42603	0.04	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-7	TBD	43	1.67	98.3	829	3.1	13.58
48167	4911	TBD	287.7980	3257.8490	15	13.11	0.51	716	30	43104	0.02	Reliant Energy Renewables Coastal Plains, L.P.	TBD		E-7	TBD	43	1.67	98.3	829	1.45	6.35
48071	4911	TBD	316.1740	3301.4950	15	38.10	6.10	385	17	42101	3.17	Texas Industrial Power	TBD		STACK1	TBD	125	20	55	234	264.1	732.60
48071	4911	TBD	316.1740	3301.4950	15	38.10	6.10	385	17	42603	0.65	Texas Industrial Power	TBD		STACK1	TBD	125	20	55	234	54.2	123.40
48071	4911	TBD	316.1740	3301.4950	15	38.10	6.10	385	17	42603	0.65	Texas Industrial Power	TBD		STACK1	TBD	125	20	55	234	54.2	123.40
48071	4911	TBD	316.1740	3301.4950	15	38.10	6.10	385	17	42603	0.65	Texas Industrial Power	TBD		STACK1	TBD	125	20	55	234	54.2	123.40
48071	4911	TBD	316.1740	3301.4950	15	38.10	6.10	385	17	43104	0.35	Texas Industrial Power	TBD		STACK1	TBD	125	20	55	234	29.2	76.30

Table H-5. Projects Meeting Update Criteria

Account	EPN	FIN	Pollutant	Emis. (TPD)	SIC	SCC	SiteName	County	*Old Emis (TPY)*	*NewEmis (TPY)*	*Factor*
BL0021O	5-1-03	5-1-C3050A	NOx	0.85591	2869	20200202	HYDROXYLAMINE II	BRAZORIA	494.4	0	0.0000
BL0021O	5-1-04	5-1-C3050B	NOx	0.42845	2869	20200202	HYDROXYLAMINE II	BRAZORIA	494.4	0	0.0000
GB0055R	COMP2FUG	T-1	VOC	0.25	2911	40388805	TEXAS CITY REFINERY	GALVESTON	33.4	0	0.0000
GB0055R	ES18	P-93	VOC	0.16	2911	30600201	TEXAS CITY REFINERY	GALVESTON	38.76	0	0.0000
GB0073P	EH-01&02	H-01	NOx	0.9	2911	30600104	VALERO REFINING COMPANY	GALVESTON	180	0	0.0000
GB0073P	EH-01&02	H-02	NOx	0.87	2911	30600104	VALERO REFINING COMPANY	GALVESTON	175	0	0.0000
GB0076J	E02B006	E02B006	NOx	0.14	2869	30183001	VINYL ACETATE FCLY. NO. 5	GALVESTON	54.16	0	0.0000
JE0039N	116S-B101	116S-B101	NOx	0.51	2822	10200602	WINGSTAY UNIT	JEFFERSON	198.7	0	0.0000
JE0067I	08FUG_001	08FUG#001	VOC	1.14	2911	30688801	BEAUMONT REFINERY	JEFFERSON	41.5	0	0.0000
JE0067I	56STK_015	56BLR#015	NOx	1.02	2911	10100701	BEAUMONT REFINERY	JEFFERSON	340.82	0	0.0000
JE0067I	56STK_016	56BLR#016	NOx	0.82	2911	10100701	BEAUMONT REFINERY	JEFFERSON	273.48	0	0.0000
JE0067I	56STK_018	56BLR#018	NOx	0.83	2911	10100701	BEAUMONT REFINERY	JEFFERSON	275.67	0	0.0000
JE0067I	56STK_019	56BLR#019	NOx	0.46	2911	10100701	BEAUMONT REFINERY	JEFFERSON	157.85	0	0.0000
JE0067I	57STK_032	57BLR#032	NOx	1.98	2911	10100701	BEAUMONT REFINERY	JEFFERSON	745.12	0	0.0000
JE0067I	57STK_033	57BLR#033	NOx	1.83	2911	10100701	BEAUMONT REFINERY	JEFFERSON	648.87	0	0.0000
JE0067I	57STK_034	57BLR#034	NOx	1.56	2911	10100701	BEAUMONT REFINERY	JEFFERSON	559.09	0	0.0000
OC0007J	PK-7	PK-7	NOx	0.75	2869	10200601	E.I. DU PONT DE NEMOURS	ORANGE	267.6	0	0.0000
GB0073P	445	T-445	VOC	0.17	2911	40301018	VALERO REFINING COMPANY	GALVESTON	31.167	0.393	0.0126
GB0073P	444	T-444	VOC	0.1	2911	40301018	VALERO REFINING COMPANY	GALVESTON	33.485	0.456	0.0136
JE0067I	53LSH_001	53LSH#001	VOC	2.84	2911	40899997	BEAUMONT REFINERY	JEFFERSON	679	13.58	0.0200
JE0067I	54LSH_001	54LSH#001	VOC	0.55	2911	40899997	BEAUMONT REFINERY	JEFFERSON	89.605	1.7921	0.0200
GB0055R	F53	P-27-A	VOC	0.76	2911	30600503	TEXAS CITY REFINERY	GALVESTON	377.48	21.42	0.0567
GB0055R	511	T511	VOC	0.25	2911	40301099	TEXAS CITY REFINERY	GALVESTON	49.56	3.79	0.0765
GB0055R	512	T512	VOC	0.25	2911	40301099	TEXAS CITY REFINERY	GALVESTON	49.56	3.82	0.0771
GB0060B	51 H 2-2	51 R 1-2	VOC	1.98	2869	30125405	TEXAS CITY PLANT	GALVESTON	330	31.5	0.0955
HG0232Q	TK0034	TK0034	VOC	0.01	2911	40301097	BAYTOWN REFINERY	HARRIS	45.07	4.4181	0.0980
HG0659W	CWT11	CWT11	VOC	3e-03	2911	30600701	DEER PARK PLANT	HARRIS	56.74	6.62	0.1167
HG0659W	CWT16/16	CWT16/16	VOC	2e-03	2911	30600701	DEER PARK PLANT	HARRIS	33.94	3.96	0.1167
HG0659W	CWT12	CWT12	VOC	2e-03	2911	30600701	DEER PARK PLANT	HARRIS	33.08	3.86	0.1167
HG0659W	CWT8	CWT8	VOC	3e-03	2911	30600701	DEER PARK PLANT	HARRIS	80.89	9.44	0.1167
GB0073P	EH-28	H-28	NOx	0.53	2911	30600104	VALERO REFINING COMPANY	GALVESTON	140.03	17.34	0.1238
GB0073P	EH-16&17	H-16	NOx	1	2911	30600104	VALERO REFINING COMPANY	GALVESTON	275.58	49.19	0.1785
HG0659W	DOCKF	DOCKF	VOC	0.11	2911	30688801	DEER PARK PLANT	HARRIS	351.6	65.2	0.1854
OC0004P	G-STACK	45305-A	VOC	1e-03	2822	30102609	POLYSAR RUBBER DIVISION	ORANGE	238	47	0.1975
HG1065E	WG-1	BOILERS	NOx	0.04	2821	10100702	KANEKA TEXAS CORPORATION	HARRIS	57.89	13	0.2246

Table H-5. Projects Meeting Update Criteria

Account	EPN	FIN	Pollutant	Emis. (TPD)	SIC	SCC	SiteName	County	*Old Emis (TPY)*	*NewEmis (TPY)*	*Factor*
HG0659W	PAUFE	PAFEFIN	VOC	9e-03	2911	30180001	DEER PARK PLANT	HARRIS	80.5	18.4	0.2286
GB0073P	EB-07T	B-07	NOx	0.95	2911	10200601	VALERO REFINING COMPANY	GALVESTON	525.11	122.43	0.2332
CI0005A	E-2M	H-2	NOx	0.03844	1321	31000404	KOCH HYDROCARBON COMPANY	CHAMBERS	8.18	2.19	0.2677
GB0055R	10	T10	VOC	0.17	2911	40301099	TEXAS CITY REFINERY	GALVESTON	32.45	9.22	0.2841
CI0005A	E-1E	H-1	NOx	0.04408	1321	31000404	KOCH HYDROCARBON COMPANY	CHAMBERS	7.64	2.19	0.2866
CI0005A	E-1M	H-1	NOx	0.04077	1321	31000404	KOCH HYDROCARBON COMPANY	CHAMBERS	7.54	2.19	0.2905
CI0005A	E-2W	H-2	NOx	0.03475	1321	31000404	KOCH HYDROCARBON COMPANY	CHAMBERS	7.37	2.19	0.2972
GB0055R	160	T160	VOC	0.16	2911	40301099	TEXAS CITY REFINERY	GALVESTON	41.42	12.37	0.2986
GB0076J	E09A025	E09A025	NOx	0.04	2869	30183001	VINYL ACETATE FCLY. NO. 5	GALVESTON	299.38	97	0.3240
GB0076J	E09A026	E09A026	NOx	0.05	2869	30183001	VINYL ACETATE FCLY. NO. 5	GALVESTON	299.38	97	0.3240
GB0073P	EH-29	H-29	NOx	0.07	2911	30600104	VALERO REFINING COMPANY	GALVESTON	46.97	15.34	0.3266
GB0076J	E09A023	E09A023	NOx	0.06	2869	30183001	VINYL ACETATE FCLY. NO. 5	GALVESTON	292.3	97	0.3319
GB0076J	E09A024	E09A024	NOx	0.05	2869	30183001	VINYL ACETATE FCLY. NO. 5	GALVESTON	292.3	97	0.3319
GB0073P	EH-34	H-34	NOx	0.33	2911	30600104	VALERO REFINING COMPANY	GALVESTON	75.08	25.65	0.3416
GB0055R	ES13	B-2D	NOx	00.1	2911	10200602	TEXAS CITY REFINERY	GALVESTON	88.21	33.32	0.3777
NE0112G	126	MFL-1	VOC	0.06	2911	30600904	VALERO REFINING COMPANY	NUECES	20.4218	7.92	0.3878
GB0073P	EG-001	G-001	NOx	1.2	2911	30600201	VALERO REFINING COMPANY	GALVESTON	1556.99	658	0.4226
HG0659W	H5101	H5101	NOx	0.38	2911	30600106	DEER PARK PLANT	HARRIS	129.74	56.76	0.4375
GB0055R	ES12	P-93	NOx	0.47	2911	30600201	TEXAS CITY REFINERY	GALVESTON	49.93	22.16	0.4438
JE0062S	EH51	B-6151A	NOx	0.14	2869	30190004	OLEFINS/AROMATICS PLANT	JEFFERSON	54.43	24.25	0.4455
JE0062S	EH52	B-6151B	NOx	0.16	2869	30190004	OLEFINS/AROMATICS PLANT	JEFFERSON	49.63	22.53	0.4540
JE0062S	EH50	B-6101C	NOx	0.19	2869	30190004	OLEFINS/AROMATICS PLANT	JEFFERSON	66.12	31.19	0.4717
GB0055R	ES13	B-2C	NOx	0.09	2911	10200602	TEXAS CITY REFINERY	GALVESTON	70.32	33.32	0.4738
JE0062S	EH54	B-6101D	NOx	0.21	2869	30190004	OLEFINS/AROMATICS PLANT	JEFFERSON	69.532	33.51	0.4819
GB0055R	ES28	E-4	NOx	0.09	2911	20200202	TEXAS CITY REFINERY	GALVESTON	166	81.11	0.4886
GB0055R	ES29	E-4	NOx	0.09	2911	20200202	TEXAS CITY REFINERY	GALVESTON	166	81.11	0.4886
JE0039N	116S-B105	116S-B105	NOx	0.57	2822	10200602	WINGSTAY UNIT	JEFFERSON	207.7	102.5	0.4935
CI0008R	10	SEM-TRFRG	NOx	0.37142	1321	20200201	ENTERPRISE PRODUCTS OPER	CHAMBERS	203.7	100.74	0.4946
CI0008R	11	SEM-TCOGN	NOx	0.37699	1321	20200203	ENTERPRISE PRODUCTS OPER	CHAMBERS	203.7	100.74	0.4946
GB0073P	EB-11	B-11	NOx	0.16	2911	10200701	VALERO REFINING COMPANY	GALVESTON	102.11	54.46	0.5333
HG0659W	H5100	H5100	NOx	0.32	2911	30600106	DEER PARK PLANT	HARRIS	106.14	56.76	0.5348

Table H-5. Projects Meeting Update Criteria

Account	EPN	FIN	Pollutant	Emis. (TPD)	SIC	SCC	SiteName	County	*Old Emis (TPY)*	*NewEmis (TPY)*	*Factor*
GB0055R	ES30	E-5	NOx	0.11	2911	20200202	TEXAS CITY REFINERY	GALVESTON	75	42.49	0.5665
GB0055R	ES31	E-5	NOx	0.11	2911	20200202	TEXAS CITY REFINERY	GALVESTON	75	42.49	0.5665
JE0039N	116S-B107	116S-B107	NOx	0.41	2822	10200602	WINGSTAY UNIT	JEFFERSON	183.1	113.9	0.6221
HG0232Q	PS7F706	PS7F706	NOx	0.07	2911	30600104	BAYTOWN REFINERY	HARRIS	59.3	38.95	0.6568
HG0232Q	PS7F705	PS7F705	NOx	0.07	2911	30600104	BAYTOWN REFINERY	HARRIS	61.4	40.33	0.6568
HG0659W	FUGDU1	FUGDU1	VOC	0.06	2911	30688801	DEER PARK PLANT	HARRIS	189.08	126.4	0.6685
BL0021O	3-1-11	3-1-IN4702	NOx	0.49583	2869	30113221	HYDROXYLAMINE II	BRAZORIA	219.41	150	0.6837
JE0039N	116S-B106	116S-B106	NOx	0.34	2822	10200602	WINGSTAY UNIT	JEFFERSON	146.4	104.1	0.7111
HG0228H	E-160	CG-160	NOx	0.6	2869	20200203	BAYTOWN OLEFINS PLANT	HARRIS	265.56	190.5	0.7174
HG0228H	E-162	CG-162	NOx	0.44	2869	20200203	BAYTOWN OLEFINS PLANT	HARRIS	261.95	190.5	0.7272
HG0228H	E-161	CG-161	NOx	0.6	2869	20200203	BAYTOWN OLEFINS PLANT	HARRIS	259.74	190.5	0.7334
GB0055R	ES32	E-6	NOx	0.19	2911	20200202	TEXAS CITY REFINERY	GALVESTON	115	84.97	0.7389
GB0060B	51 H 2-2	51 H 2-2	NOx	0.27	2869	30125405	TEXAS CITY PLANT	GALVESTON	142	105.1	0.7401
LH0026B	S-009	01007 BL R	NOx	0.41	2436	10200902	CLEVELAND PLYWOOD PLANT	LIBERTY	318.9	239.13	0.7499
LH0026B	S-010	01007 BL R	NOx	0.41	2436	10200902	CLEVELAND PLYWOOD PLANT	LIBERTY	318.9	239.13	0.7499
HG0126Q	55MM1515ST	55MH1	NOx	0.8	2869	10200601	CLEAR LAKE PLANT	HARRIS	1904.08	1451.99	0.7626
HG0232Q	DOCKSSHIP	DOCKSSHIP	VOC	0.8	2911	40600298	BAYTOWN REFINERY	HARRIS	682.01	553.51	0.8116
HG0232Q	PS7FUG	PS7FUG	VOC	0.31	2911	30688801	BAYTOWN REFINERY	HARRIS	1.57	1.5	0.9554
HG0562P	EB-1B-505	EB-1B-505	NOx	0.84	2869	10200603	TX. PETROCHEMICALS CORP.	HARRIS	305.519	332.88	1.0896
CI0016S	FV80041500	FV80041500	NOx	0.01950	2869	10200601	T.D.I. AREA 60 PROJ. 7005	CHAMBERS	16.21940	19.60386	1.2087
CI0016S	FV80011500	FV80011500	NOx	0.16525	2869	10200601	T.D.I. AREA 60 PROJ. 7005	CHAMBERS	139.99135	166.13019	1.1867
CI0016S	FV80021500	FV80021500	NOx	0.13168	2869	10200601	T.D.I. AREA 60 PROJ. 7005	CHAMBERS	111.55257	132.38138	1.1867
CI0016S	FV80031500	FV80031500	NOx	0.11726	2869	10200601	T.D.I. AREA 60 PROJ. 7005	CHAMBERS	99.33668	117.88457	1.1867
HG0659W	HCOKE	H31002	NOx	0.06	2911	30600106	DEER PARK PLANT	HARRIS	57.38	87.6	1.5267
HG0659W	K301	K301	VOC	0.06	2911	40301097	DEER PARK PLANT	HARRIS	82.52	128.93	1.5624
HG0659W	K302	K302	VOC	0.02	2911	40301097	DEER PARK PLANT	HARRIS	82.52	128.93	1.5624
GB0005J	FLARE 4	FLARE 4	VOC	8e-03	4226	30190099	STAN TRANS INCORPORATED	GALVESTON	17.33	29.48	1.7011
HG0659W	TA322	TA322	VOC	6e-03	2911	40301109	DEER PARK PLANT	HARRIS	29.9	58.89	1.9696
HG0659W	H5103	H5103	NOx	0.12	2911	30600106	DEER PARK PLANT	HARRIS	33.84	68.07	2.0115
GB0055R	ES16	P-1	VOC	0.33	2911	30609903	TEXAS CITY REFINERY	GALVESTON	30.96	63.95	2.0656
CB0028T	522	LP2-522	VOC	0.02175	2869	30101813	SEADRIFT PLANT	CALHOUN	22.53	48.76	2.1642
HG0232Q	SCU2T601	SCU2T601	VOC	0.17	2911	30699999	BAYTOWN REFINERY	HARRIS	34.1	79.1	2.3196
JE0067I	15STK_001	15HTR#001	NOx	0.17	2911	30600104	BEAUMONT REFINERY	JEFFERSON	66.63	158.01	2.3715
NE0112G	126	MFL-1	NOx	3e-03	2911	30600904	VALERO REFINING COMPANY	NUECES	1.20815	3	2.4831
JE0067I	27STK_003	27HTR#003	NOx	0.23	2911	30600104	BEAUMONT REFINERY	JEFFERSON	131.55	339.01	2.5770

Table H-5. Projects Meeting Update Criteria

Account	EPN	FIN	Pollutant	Emis. (TPD)	SIC	SCC	SiteName	County	*Old Emis (TPY)*	*NewEmis (TPY)*	*Factor*
HG0126Q	63MN457ST	63MN460INC	NOx	0.15	2869	50300701	CLEAR LAKE PLANT	HARRIS	48.41	127.5	2.6338
HG0659W	H5102	H5102	NOx	0.05	2911	30600106	DEER PARK PLANT	HARRIS	20.61	57.03	2.7671
HG0232Q	CLEU2F3	CLEU2F3	NOx	0.08	2911	30600602	BAYTOWN REFINERY	HARRIS	27.2	87	3.1985
GB0073P	CT-1	CT-1	VOC	0.41	2911	30600701	VALERO REFINING COMPANY	GALVESTON	10.51	90.09	8.5718