

Excerpt 6

Revised Air Quality Modeling, July 2011,
and Submittal Cover Letter, July 18, 2011,
AR I.A.5.a, and I.A.5.b

July 18, 2011

Mr. Steven C. Riva, Chief
USEPA Region 2
Permitting Section, Air Programs Branch
290 Broadway
New York, NY 10007-1866

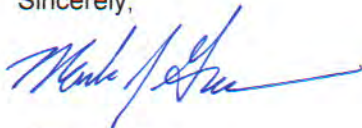
Subject: Revised Air Quality Modeling Analysis
Arecibo Puerto Rico Renewable Energy Project
Prevention of Significant Deterioration – Air Permit Application

Dear Mr. Riva:

Attached for your review are three copies of the revised air quality modeling analysis for the proposed Energy Answers Arecibo Renewable Energy Project. This analysis was completed per the recommendations you provided in your March 31, 2011 comment letter to our pre-construction PSD permit application. The air modeling methodology is consistent with the modeling protocol submitted on May 24, 2011 and which received your approval via letter dated July 5, 2011.

Should you require further information during your review of this material, please contact me at (518) 434-1227 or (347) 351-5248.

Sincerely,



Mark J. Green
Vice President
Energy Answers Arecibo, LLC

/Attachments

cc: John L. Hanisch – ARCADIS
Kevin R. Scott, PE – ARCADIS

Energy Answers Arecibo, LLC

SAN JUAN: The Atrium Business Center • Suite 229 • 530 Constitution Avenue • San Juan • PR • 00901-2304 • Phone: 787 289-7804
U.S. VIRGIN ISLANDS: 1110 Strand Street • Christiansted • VI • 00820 • USA • Phone: 340 778 7505 • Fax: 340 778 7504
NEW YORK: 79 North Pearl Street • Albany • NY • 12207 • Phone: 518 434 1227 • Fax: 518 436 6343



Energy Answers International

PSD Air Quality Modeling Analysis

For the proposed

**Arecibo Renewable Energy Project
Arecibo, Puerto Rico**

Barrio Cambalache, Arecibo, Puerto Rico

Revision Submitted July 2011

ARCADIS

**Energy Answers International
Arecibo Renewable Energy
Project**

Arecibo, Puerto Rico

**PSD Air Quality Modeling
Revised**

Prepared for:
Energy Answers International

Prepared by:
ARCADIS
801 Corporate Center Drive
Suite 300
Raleigh, North Carolina 27607
Tel 919.854.1282
Fax 919.854.5448

Our Ref.:
NCENRGY1.0003

Date:
July 2011

Revised

Table 8-1 Soils and Vegetation Screening Modeling

Parameter	Averaging Period	USEPA Screening Level ($\mu\text{g}/\text{m}^3$)	MAX AREP Model Results ($\mu\text{g}/\text{m}^3$)		
			80% Load	100% Load	110% Load
SO ₂	1-hour	917	42.64	40.68	41.5
	3-hour	786	23.24	22.03	21.58
	Annual	18	0.310	0.287	---(a)
NO ₂	4-hour	3,760	26.59	28.47	28.83
	8-hour	3,760	16.31	16.73	16.29
	1-month	564	1.15	1.15	1.13
	Annual	94	0.431	0.403	---(a)

a) Annual analysis for 110% is not applicable due to the expected short-term duration of this scenario.

Based on the results shown here, impacts to soils and vegetation can be considered negligible. Copies of the AERMOD input and output files are provided on DVD in Appendix E.

8.6 Lead Modeling Analysis

In addition, Energy Answers evaluated potential air quality impacts of lead from the proposed AREP for reference in considering the new 2008 NAAQS for lead. Although the potential emissions of lead from the proposed AREP are below the significant emission rate that triggers a PSD review and, therefore, an air modeling impact analysis for lead is not technically required, Energy Answers went ahead and modeled its maximum potential emissions of lead using AERMOD and the methodology described in the approved protocol. Since the new lead standard is in the form of a 3-month rolling average, the AERMOD model results for lead were processed using the LEADPOST (Version 11096) program to read the monthly concentrations and calculate the 3 month rolling averages. It should be noted that, for the purposes of modeling lead, the emission rates were amplified by a factor of 1000. This was necessary in order for LEADPOST to produce a non-zero output.

Results of this analysis indicate that the maximum predicted concentration of lead is 0.00056 ug/m³, which is well below the 0.15 ug/m³ NAAQS (3-month average). Therefore the project will not cause a significant increase in the lead concentrations anywhere in the surrounding area. The model input and output files are provided on DVD in Appendix E.



Appendix D

Offsite Source Inventory



NO SCALE
 - - - 57 KM RADIUS

MAP ID FACILITY

1	Energy Answers proposed AREP
2	ABB Abraxis Pharmaceutical Manufacturing LLC
3	Abbott Laboratories
4	Alco Corp
5	BASF Agricultural
6	Battery Recycling
7	Betterroads Manati
8	Borinquen Container
9	Bright Dry Cleaning
10	Bristol Holding Pharma
11	Cantera Green
12	Cemex de Puerto Rico
13	Cerveceria India
14	Cutler Hammer Electrical Company
15	Destileria Serralles
16	Essroc
17	Eco Electrica LP
18	Ganaderos Alvarado
19	Goya (Tradewind Foods)
20	Merck Sharp and Dohme
21	Ortho Pharmaceutical
22	Patheon Mova
23	Pfizer Vega Baja
24	PREPA Cambalache
25	PREPA Mayaguez
26	PREPA Palo Seco
27	PREPA San Juan
28	PREPA Vega Baja
29	Safetech Corp
30	Thermoking
31	V'Soske
32	Warner Chilcott
33	PREPA South Coast
34	Barcardi

ENERGY ANSWERS INTERNATIONAL, INC.
 ARECIBO, PUERTO RICO

OFFSITE SOURCE INVENTORY FOR
 MULTISOURCE MODELING ANALYSIS

ENERGY ANSWERS ARECIBO RENEWABLE ENERGY PROJECT
Facility Source Inventory for 1-Hour NO2 & SO2 Multisource Modeling Analysis

Site	Permit Number	Location	MODEL ID	Distance from Site (km)	SO2 (g/s)	NOx (g/s)	Source Description	UTM X (m)	UTM Y (m)	Elevation (m)	Stack Height (m)	Exit Velocity (m/s)	Diameter (m)	Temperature (K)
ABB (Abraxis Bioscience Manufacturing)	PFE-TV-2833-09-0397-0030-A	Barceloneta	ABB1	14.7	1.772	1.9	Boiler 1	757125	2039740	81	9.8	16.2	0.61	697
ABB (Abraxis Bioscience Manufacturing)	PFE-TV-2833-09-0397-0030-A	Barceloneta	ABB2	14.7	1.772	1.9	Boiler 2	757125	2039740	81	9.8	18.6	0.61	519
Abbott Laboratories	PFE-TV-09-1096-0011	Barceloneta	ABBOTT1	14.0	0.0232	0.2374	EU-1 Thermal Oxidizer	756217	2039276	82	30.5	4.9	0.61	608
Abbott Laboratories	PFE-TV-09-1096-0011	Barceloneta	ABBOTT2	14.1	3.93	1.18	EU-8 Boilers 101 & 102	756365	2039108	88	60	39.0	0.76	298
Abbott Laboratories	PFE-TV-09-1096-0011	Barceloneta	ABBOTT3	14.5	49.39	37.17	EU-9 Cogeneration	756906	2039958	88	53	8.3	1.82	400
Abbott Laboratories	PFE-TV-09-1096-0011	Barceloneta	ABBOTT4	14.5	13.9	2.43	EU-10 Boiler 1	756936	2039910	89	24	8.3	0.91	477
Abbott Laboratories	PFE-TV-09-1096-0011	Barceloneta	ABBOTT5	14.5	13.6	0.96	EU-11 Boiler 4	756936	2039910	89	24	10.0	0.91	419
Abbott Laboratories	PFE-TV-09-1096-0011	Barceloneta	ABBOTT6	14.5	11.92	0.8442	EU-11 Boiler 6	756920	2039780	85	24	9.0	0.76	411
ALCO Corporation	PFE-34-1106-2173-II-O	Hatillo	ALCO1	13.5	0.226	3.44	Generator - 896 HP - 44.5 gph	731860	2034590	200	4.6	28.00	0.20	672
ALCO Corporation	PFE-34-0107-0003-I-II-O	Hatillo	ALCO2	13.5	3.01	1.02	Drum Mixer & Heater - 85 mmbtu/hr - 336.5 gph	731860	2034590	200	12.2	14.66	0.89	421
ALCO Corporation	PFE-34-0107-0003-I-II-O	Hatillo	ALCO3	13.5	0.0775	1.18	Heater 2.12 MMBtu/hr - 15 gph	731860	2034590	200	3.0	20.00	0.20	422
BASF Agricultural	PFE-SM-47-0908-0477-I-II-O	Manati	BASFAG1	25.8	3.86	0.6757	Boiler	768356	2040300	52	8.84	6.1	0.508	489
BASF Agricultural	PFE-SM-47-0908-0477-I-II-O	Manati	BASFAG2	25.8	0.179	0.0605	Thermal Oxidizer	768356	2040300	52	8.84	6.1	0.61	505
BASF Agricultural	PFE-SM-47-0908-0477-I-II-O	Manati	BASFAG3	25.8	0.0895	0.0302	Heater	768356	2040300	52	8.84	13.6	0.3048	616
Battery Recycling Company	PFE-RA-07-0104-0018-I-II-C	Arecibo	BRC1	1.2	1.56	0.26	Smelting Furnace 12 MMBtu/hr / kettles 2.5 mmbtu/hr	743598	2041908	3.0	23.9	11.1	1.581	353
Betteroads Asphalt, Inc #10	PFE-47-0905-1645-I-II-O	Manati	BETTE1	27.2	1.12	6.23	93.3 mmbtu/hr - 340 gpm, 0.5% S	767102	2030774	43.58	10.36	20.3	3.51	400
Borinquen Container/Jen Container	PFE-01-34-1007-0036-I-II-O	Hatillo	BORING1	10.9	1.86	0.27	16.7 mmbtu/hr boiler- 111 gph - 400hp	731904.76	2044490.81	47.2	5.90	10.8	0.82	505
Borinquen Container/Jen Container	PFE-01-34-1007-0036-I-II-O	Hatillo	BORING2	10.9	1.39	0.21	12.5 mmbtu/hr boiler - 83.5 gph - 300hp	731904.76	2044490.81	47.2	19.70	10.8	0.65	505
Bright Dry Cleaning	PFE-LC-01-07-1009-0020-I-O	Arecibo	BRIGHT1	4.3	0.011	0.0076	Boiler columbia - 3 gph	738517	2043930	31	3.05	0.01	0.91	325
Bright Dry Cleaning	PFE-LC-01-07-1009-0020-I-O	Arecibo	BRIGHT2	4.3	0.016	0.011	Boiler fulton - 4.5 gph	738517	2043930	31	3.05	0.01	0.91	505
Bristol Holding Pharma	---	Manati	BRISTOL1	24.7	1.878	0.882	600 hp boilers (#1 & #2)	767320.31	2042440.76	10	11.60	16.1	0.56	450
Cantera Green	PFE-01-07-0606-0044-I-II-O	Arecibo	CANTERA1	7.2	0.172	0.34	Mill 1 - 4.35 gph - 3000 hr/yr	736634	2038673	123	2.4	0.01	0.076	755
Cantera Green	PFE-01-07-0606-0044-I-II-O	Arecibo	CANTERA2	7.2	0.172	1.68	1095 hp generator - 30 gph - 3000 hr/yr	736634	2038673	123	2.4	0.01	0.076	755
Cemex de Puerto Rico, Inc	PFE-TV-3274-58-0996-0009	Ponce	CEMEXPR5	49.3	2.0	0.46	Boilers (3) - startup 3.35 MMBTU/HR EA, 22.3 GPH	749940	1993894	25	10.67	14.14	1.21	422
Cervecería India, Mayagüez	PFE-TV-2082-50-0597-0038	Mayaguez	CERVEC1	54.3	13.19	1.848	40 MMBTU/HR BOILER	696467	2014103	5	13.7	13.3	1.07	569
Cervecería India, Mayagüez	PFE-TV-2082-50-0597-0038	Mayaguez	CERVEC2	54.3	13.85	1.940	42 MMBTU/HR BOILER	696467	2014103	5	13.7	13.3	1.07	582
Cutler-Hammer Electrical Company	PFE-SM-3089-07-1208-0612	Arecibo	CUTLER1	4.9	0.63	0.18	8.369 MMBtu/hr boiler - 70.7 gph (Boiler 1)	747515	2041751	14	11.6	7.90	0.91	803
Cutler-Hammer Electrical Company	PFE-SM-3089-07-1208-0612	Arecibo	CUTLER2	4.9	0.63	0.18	8.369 MMBtu/hr boiler - 70.7 gph (Boiler 2)	747518	2041747	14	11.6	7.9	0.91	802.6
Destilería Serrallés	PFE-TV-2085-58-0397-0016	Ponce	SERRAL1	51.2	13.08	2.70	Nebraska boiler -60.3 mmbtu/hr - 389 gph	757952	1993766	22	30.5	7.9	1.4	477.6
Destilería Serrallés	PFE-TV-2085-58-0397-0016	Ponce	SERRAL2	51.2	13.08	2.70	Nebraska boiler -60.3 mmbtu/hr - 389 gph	757952	1993766	22	30.5	7.9	1.4	477.6
Essroc Inc.	PFE-TV-3241-260397-0026	Dorado	ESSROC1	43.5	6.78	20.92	cement kiln	785585	2035810	118	17.6	6.1	0.755	505
Essroc Inc.	PFE-TV-3241-260397-0026	Dorado	ESSROC2	43.5	6.78	23.71	cement kiln	785585	2035810	118	14.4	7.7	0.508	489
Ecoeléctrica LP	PFE-TV-4911-57-0899-0006	Penuelas	ECOELE1	53.6	0.237	4.246	auxiliary generator 1280 kW	737719	1989315	1	70.1	20.9	0.61	588
Ecoeléctrica LP	PFE-TV-4911-57-0899-0006	Penuelas	ECOELE2	53.9	0.441	34.0	General flare	737434.42	1989040.74	1	20	flare	11.09	500
Ecoeléctrica LP	PFE-TV-4911-57-0899-0006	Penuelas	ECOELE3	53.7	0.067	5.3	LNG Tank Flare	737343	1989249	1	35	flare	4.31	500
Ecoeléctrica LP	PFE-TV-4911-57-0899-0006	Penuelas	ECOELE4	53.6	9.324	7.938	gas turbine	737719	1989315	1	70.1	19.8	5.79	391
Ecoeléctrica LP	PFE-TV-4911-57-0899-0006	Penuelas	ECOELE5	53.5	9.324	7.938	gas turbine	737716	1989327	1	70.1	19.8	5.79	391
Ganaderos Alvarado	PFE-LC-RA-07-0210-0200-II-O	Arecibo	GANAD1	3.5	0.075	1.14	400 kw generator - 15 gph 1040 hr/yr	745270	2044951		3.0	20.0	0.2	491
Merck, Sharp and Dohme	PFE-01-07-0606-0046-II-III-O	Barceloneta	MERCK1	16.8	14.45	1.94	Stack 1 (2 boilers)	759082	2039050	25.9	27.43	40.9	0.9144	333.15
Merck, Sharp and Dohme	PFE-07-0808-0387-II-O	Barceloneta	MERCK2	16.8	7.223	0.9702	Stack 1 (2 boilers)	759082	2039050	25.9	27.43	40.9	0.9144	449.82
Merck, Sharp and Dohme	PFE-07-0808-0387-II-O	Barceloneta	MERCK3	16.8	1.124	4.9451	Stack 3 Cogen	759082	2039050	25.9	22.86	40.9	1.2192	449.82
Merck, Sharp and Dohme	PFE-07-0808-0387-II-O	Barceloneta	MERCK4	17.2	3.742	0.468	Stack 4 Incinerator	759461	2038900	25.9	27.43	40.9	1.2192	463.71
Ortho Pharmaceutical	PFE-01-47-0908-0013-I-II-O	Manati	ORTHO1	25.1	3.45	2.92	135 MMBtu/hr boiler	767640	2040493	53	20.7	28	1.6	528.15
Ortho Pharmaceutical	PFE-01-47-0908-0013-I-II-O	Manati	ORTHO2	25.0	3.45	2.92	135 MMBtu/hr boiler	767618	2040485	53	20.7	28	1.6	528.15

ENERGY ANSWERS ARECIBO RENEWABLE ENERGY PROJECT
Facility Source Inventory for 1-Hour NO2 & SO2 Multisource Modeling Analysis

Site	Permit Number	Location	MODEL ID	Distance from Site (km)	SO2 (g/s)	NOx (g/s)	Source Description	UTM X (m)	UTM Y (m)	Elevation (m)	Stack Height (m)	Exit Velocity (m/s)	Diameter (m)	Temperature (K)
Ortho Pharmaceutical	PFE-01-47-0908-0013-I-II-O	Manati	ORTHO3	25.0	0.427	0.30	16.7 MMBtu/hr boilers	767597	2040432	52	8.8	6.5	0.61	494.26
Patheon Mova	PFE-SM-2834-47-0402-0568	Manati	PATHEON1	25.1	1.29	5.63	39.4 MMBTU/HR TURBINE - 376 GPH, 0.2%S 1044 H	767581.67	2039401.3	72.5	20.1	9.4	1.06	465
Patheon Mova	PFE-SM-2834-47-0402-0568	Manati	PATHEON2	25.2	0.419	0.295	(2) 16 MMBTU/HR BOILER - 117 GPH, 0.2%S, 1 serv	767627.92	2039383.45	72.5	19.5	6.2	0.6	482
Pfizer - Vega Baja	PFE-74-0596-0586-I-II-O	Vega Baja	PFIZER1	37.3	0.0930	0.262	3 BOILERS - 9.29, 9.29, 13.66 MMBTU/HR - 70.7, 70.7, 104 GPH	779923	2041945	7.5	8.8	7.0	0.5	440
Pfizer - Vega Baja	PFE-74-0596-0586-I-II-O	Vega Baja	PFIZER2	37.3	0.0632	0.178	3 BOILERS - 9.29, 9.29, 13.66 MMBTU/HR - 70.7, 70.7, 104 GPH	779921.44	2041952	7.5	8.8	7.0	0.5	440
Pfizer - Vega Baja	PFE-74-0596-0586-I-II-O	Vega Baja	PFIZER3	37.3	0.0632	0.178	3 BOILERS - 9.29, 9.29, 13.66 MMBTU/HR - 70.7, 70.7, 104 GPH	779920	2041961.2	7.5	8.8	7.0	0.5	438
Pfizer - Vega Baja	PFE-74-0596-0586-I-II-O	Vega Baja	PFIZER4	37.3	0.310	0.178	Cogen unit - 45.58 MMBTU/hr - 347 gph	779915	2041950.6	7.5	9.1	45.0	1.0	721
Pfizer - Vega Baja	PFE-74-0596-0586-I-II-O	Vega Baja	PFIZER5	37.3	0.293	0.827	Cogen unit - 43.09 MMBTU/hr - 328 gph	779940.57	2042000	7.5	10.0	45.0	1.1	731
Pfizer - Vega Baja	PFE-74-0596-0586-I-II-O	Vega Baja	PFIZER6	37.3	0.430	7.50	1 GAS TURBINE - 67.65 MMBTU/HR - 515 GPH	779933	2042003.44	7.5	10.7	29.0	1.4	750
PREPA Cambalache	PFE-TV-4911-07-0897-0043	Arecibo	PREPAC1	1.4	17.26	18.6	Combustion Turbines - 898 MMbtu/hr	742945	2043981	3.05	30.5	34.6	4.72	654
PREPA Cambalache	PFE-TV-4911-07-0897-0043	Arecibo	PREPAC2	1.3	17.26	18.6	Combustion Turbines - 898 MMbtu/hr	742930	2043878	3.05	30.5	34.6	4.72	654
PREPA Cambalache	PFE-TV-4911-07-0897-0043	Arecibo	PREPAC3	1.3	17.26	18.6	Combustion Turbines - 898 MMbtu/hr	742915	2043865	3.05	30.5	34.6	4.72	654
PREPA Mayaguez	PFE-TV-4911-50-1105-1925	Mayaguez	PREPAM1	55.7	38.91	72.13	2 Power blocks - 4680 gph	694007	2015525	10	14.3	46.6	2.9	683
PREPA Mayaguez	PFE-TV-4911-63-1196-0014	Mayaguez	PREPAM2	55.3	38.91	72.13	2 Power blocks - 4680 gph	694508	2015447	10	14.3	46.6	2.9	683
PREPA Vega Baja	PFE-TV-4911-74-0106-0021	Barceloneta	PREPAVB1	32.8	20.1	7.87	gas turbine	775398	2041530	7.01	12.04	40.9	2.9	777
PREPA Vega Baja	PFE-TV-4911-74-0106-0021	Barceloneta	PREPAVB2	32.8	20.1	7.87	gas turbine	775416	2041530	7.01	12.04	40.9	2.9	777
Safetech Corp., Arecibo	PFE-TV-4953-07-1003-0001	Arecibo	SAFETCH1	4.3	0.0945	0.63	Incinerator	746938	2042285	30.48	27.4	10.5	1.2	351
ThermoKing	PFE-LC-RA-07-1004-0054-I-II-O	Arecibo	THERMOK1	4.7	0.0755	0.2125	Misc heaters - 84.34 gph	737991	2042357	36.3	6.10	1.78	0.15	344.26
ThermoKing	PFE-LC-RA-07-1004-0054-I-II-O	Arecibo	THERMOK2	4.7	4.41E-06	0.0573	pyrolysis heater - 35 gph propane	737991	2042357	36.3	7.0	10.3	1.1	449.82
VSoske	PFE-74-0695-0834-II-O	Vega Baja	VSOSKE1	34.6	1.11	0.26	5.55 mmbtu boiler - 37.5 gph - 1.5%S	777246	2041493	68.6	9.14	7.04	0.41	505
VSoske	PFE-74-0695-0834-II-O	Vega Baja	VSOSKE2	34.6	0.0021	0.0079	0.432 mmbtu/hr - 3.15 gph, 0.037%S	777246	2041493	68.6	6.10	1.89	0.203	450
VSoske	PFE-74-0695-0834-II-O	Vega Baja	VSOSKE3	34.6	3.26	0.762	16.7 mmbtu/hr boiler - 110 gph, 1.5%S	777246	2041493	68.6	7.31	0.61	0.61	505
VSoske	PFE-74-0695-0834-II-O	Vega Baja	VSOSKE4	34.6	1.24	0.173	500 hp Kewanee boiler - 25 gph, 2.5% S	777246	2041493	68.6	7.31	0.61	0.61	505
VSoske	PFE-74-0695-0834-II-O	Vega Baja	VSOSKE5	34.6	0.99	0.139	200 hp Happman-Hutton boiler - 20 gph, 2.5% S	777246	2041493	68.6	9.14	7.04	0.41	505
Warner Chilcott P.R, LLC (formerly Proctor and Ga	PFE-RA-47-0217-0101-I-II-O	Manati	WARNERC1	25.9	1.14	1.2	2 boilers	768412	2040260	56	13.7	8	0.61	505
PREPA San Juan *		San Juan	PREPASJ1	63.2	N/A	49.49	Boiler 7	805828.98	2040045.12	3	53.5	13.5941	1.8	422
PREPA San Juan *		San Juan	PREPASJ2	63.2	N/A	49.49	Boiler 8	805844.65	2040053.92	3	53.5	12.957	1.8	422
PREPA San Juan *		San Juan	PREPASJ3	63.1	N/A	49.49	Boiler 9	805682.04	2039954	3	55.2	3.9	1.8	422
PREPA San Juan *		San Juan	PREPASJ4	63.1	N/A	49.49	Boiler 10	805668.33	2039944.2	3	55.2	29.75	1.8	422
PREPA San Juan *		San Juan	PREPASJ5	63.2	N/A	58.75	Turbine 1 & 2	805834	2040003	3	85.74	6.92	7.07	422
PREPA Palo Seco *		Toa Baja	PREPAPS1	58.4	N/A	35.03	GT1-1	801081	2042886	2.987	12	40.9	2.9	394.26
PREPA Palo Seco *		Toa Baja	PREPPS2	58.4	N/A	35.03	GT1-2	801081	2042886	2.987	12	17.9668	2.9	777
PREPA Palo Seco *		Toa Baja	PREPAPS3	58.4	N/A	35.03	GT2-1	801042	2042889	2.987	12	11.4957	2.9	777
PREPA Palo Seco *		Toa Baja	PREPAPS4	58.4	N/A	35.03	GT2-2	801042	2042889	2.987	12	4.6939	2.9	777
PREPA Palo Seco *		Toa Baja	PREPAPS5	58.4	N/A	35.03	GT3-1	801081	2042886	2.987	12	9.144	2.9	777
PREPA Palo Seco *		Toa Baja	PREPAPS6	58.4	N/A	35.03	GT3-2	801081	2042886	2.987	12	4.572	2.9	777
Goya (Tradewind Foods) *		Bayamon	GOYA1	59.1	N/A	3.59	Boilers 1-3	801627.2	2038384.2	7.01	13.716	12.19	1.1	505.37
Barcardi *		Catano	BACARD1	59.2	N/A	10.24	Boiler #1 & #3	801895	2043320	2.987	45.548	11.8872	1.676	524

Notes:

* Not included in SO2 multisource modeling. Source location distance outside of SIA + 50km .