NJpoint Query.xls this spreadsheet same as NJpoint Query2, except that uncontrolled emissions rates differ. See notes below.

this spreadsheet developed from query in access file non_egu_pt., which is result of loading up njnonegu_3.xls, which is the 5/10/99 version of nj_pt.xls, with the sources presently included in NJ's NOx budget cap allocation list removed.

in the access file's query, totals for various fields, by SCC code, were determined, and then the descriptions for these SCCs were pulled in from the access file "SCC", which is directly from a *.dbf file sent by G. Stella, USEPA.

SCC1_DESC	SCC3_DESC	SCC6_DESC	SCC8_DESC

Table 4

Non-electricity-generating Units Not Included in NJ's Proposed NOx Budget Cap: Source Classification Codes (SCCs) with Significant NOx Emissions,

Estimated Pre-1995 Uncontrolled Emissions Rates, Estimated Controlled Emission Rates per N.J.A.C. 7:27-19, and Ratio of Estimated Controlled Rate to Estimated Uncontrolled Rate

SCC Number	Description	Sector	Fuel	Size	Uncontrolled emissions rate lb/MMBtu *	NJ NOx RACT rate lb/MMBtu *	NJ estimated Controlled/ uncont'd ratio	CE per NJ NOx RACT	Avg. CE in EPA database nj_pt.xls	EPA net estimated control ratio	EPA default CE fr. Emis_tsd.pdf	Note	% of 2007 Budget	Sum of calc'd uncontrolled '95
10300601	Boilers	al	Natural Gas	> 100 Million Btu/hr	0.534	0.20	0.37	62.55	52.07	0.48	50.00	1	18.4	5501
10200602	Boilers	Industrial	Natural Gas	Btu/hr	0.136	0.11	0.82	18.38	32.34	0.68	50.00	1,2	10.2	3596
10200401	Boilers	Industrial	Residual Oil	Grade 6 Oil	0.367	0.34	0.92	8.27	13.31	0.87	50.00	1,3	8.9	2401
39999994	Industrial Processes	Misc. Mfgr.	Processes	Classified	na	na	1.00	0.00	0.00	1.00	na	4	13.8	2165
30199998	Industrial Processes	Chemical Mfgr.	Other Not Classified	na	na	na	1.00	0.00	0.00	1.00	na	4	11.5	1705
10200601	Boilers	Industrial	Natural Gas	> 100 Million Btu/hr	0.534	0.20	0.37	62.55	53.40	0.47	50.00	1	3.6	1361
20200202	Engines	Industrial	Natural Gas	Reciprocating	*8.160*	*4.75*	0.58	41.79	29.81	0.70	30.00	5,6	7.3	1017
10200603	Boilers	Industrial	Natural Gas	< 10 Million Btu/hr	0.097	na	1.00	0.00	22.32	0.78	50.00	4	2.7	951
30199999	Industrial Processes	Chemical Mfgr.	Other Not Classified		na	na	1.00	0.00	30.00	0.70	na	4	5.4	848
10300602	Boilers	al	Natural Gas	Btu/hr	0.136	0.11	0.82	18.38	13.46	0.87	50.00	1,2	2.2	609
50100102	Solid Waste Disposal	Government	Municipal Incineration	Mass Burn	na	na	1.00	0.00	0.00	1.00	na	4	3.0	592
20200401	Engines	Industrial	Large Bore Engine	Diesel	*10.890*	*4.75*	0.44	56.38	24.38	0.76	50.00	5	2.8	572
10200501	Boilers	Industrial	Distillate Oil	Grades 1 and 2 Oil	0.134	0.12	0.90	10.45	18.88	0.81	50.00	1,7	1.9	549
10300401	Boilers	al	Residual Oil	Grade 6 Oil	0.367	0.34	0.92	8.27	4.43	0.96	50.00	1,3	2.9	492
10300603	Boilers	al	Natural Gas	< 10 Million Btu/hr	0.097	na	1.00	0.00	11.67	0.88	50.00	4	0.8	265
20200402	Engines	Industrial	Large Bore Engine	Dual Fuel (Oil/Gas)	*8.160*	*4.75*	0.58	41.79	31.58	0.68	50.00	5	0.7	205
20200201	Engines	Industrial	Natural Gas	Turbine	na	na	0.50	0.50	24.80	0.75	84.00	8	0.5	154
10300501	Boilers	al	Distillate Oil	Grades 1 and 2 Oil	0.144	0.12	0.83	16.67	8.33	0.92	50.00	1,7	0.7	137
10200204	Boilers	Industrial	Coal	Spreader Stoker	0.586	0.45	0.77	22.64	50.00	0.50	55.00	1,9	0.4	113
30600201	Industrial Processes	Petroleum Industry	Catalytic Cracking Units	Fluid Cat. Cracking	na	na	1.00	0.00	40.00	0.60	na	4	0.4	112
10201001	Boilers	Industrial	LPG	Butane	na	na	0.50	0.50	34.35	0.66	50.00	8	0.3	107
20200252	Engines	Industrial	Natural Gas	2-cycle Lean Burn	na	na	0.50	0.50	24.00	0.76	na	8	0.4	78
20200101	Engines	Industrial	Distillate Oil (Diesel)	Turbine	na	na	0.50	0.50	14.23	0.86	68.00	8	0.3	75

* Rates for engines, in italics, above, are expressed in grams/hp-hour. See Note 5, below.

NOTES

1 Uncontrolled rates for boilers are median rates reported in 1990 NJ Emission Statements for each SCC category.

2 Controlled rate multiplied by 1.11 to account for estimated portion of sources below NJ's NOx RACT size threshold.

3 Controlled rate varies by firing method and size of boiler. Average of three rates for non-tangential firing is assumed.

4 Emissions rate not available. No additional controls assumed.

5 Uncontrolled rates for engines are from AP-42 files downloaded from www.epa.gov/ttn/chief/ap42etc.html, 7/13/99

NJ NOx RACT rate, 1.5 to 8 g/hphr, averaged to 4.75 g/hphr.

6 SCC 20200202 assumed to have same emission rate as SCC 20200402.

7 NJ NOx RACT requirement for units >= 50 and < 100 MMBtu/hr assumed to apply.

8 Source information insufficient to determine exact NJ NOx RACT control rate; 50% CE assumed.

9 Controlled rate is calculated average NJ NOx RACT rate for dry bottom combustion.

NJpoint Query.xls this spreadsheet same as NJpoint Query2, except that uncontro

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SCC1_DESC	SCC3_DESC	SCC6_DESC	SCC8_DESC

Table 4

Non-electricity-generating Units Not Included

Source Classification Codes (SCCs) wit

Estimated Pre-1995 Uncontrolled Emissions Rates, Estimated C

Ratio of Estimated Controlled Rate to E

SCC Number	Description	Sector	Fuel	Size	Expected NJ tons, '95 (uncontrolled '95 x con/unc ratio)	estimated SNOX95 based on EPA c.r.	ratio of SNOX95 to estimated SNOX95	difference of epa cr. Vs. snox95
10300601	Boilers	al	Natural Gas	> 100 Million Btu/hr	2060	**2637**	**1.25**	**534.70**
10200602	Boilers	Industrial	Natural Gas	Btu/hr	2935	**2433**	**1.56**	**871.26**
10200401	Boilers	Industrial	Residual Oil	Grade 6 Oil	2203	**2082**	**1.11**	**207.94**
39999994	Industrial Processes	Misc. Mfgr.	Processes	Classified	2165	**2165**	**1.00**	**0.00**
30199998	Industrial Processes	Chemical Mfgr.	Other Not Classified	na	1705	**1705**	**1.00**	**0.00**
10200601	Boilers	Industrial	Natural Gas	> 100 Million Btu/hr	510	**634**	**1.20**	**107.05**
20200202	Engines	Industrial	Natural Gas	Reciprocating	592	**714**	**0.72**	**-283.17**
10200603	Boilers	Industrial	Natural Gas	< 10 Million Btu/hr	951	**739**	**1.75**	**317.51**
30199999	Industrial Processes	Chemical Mfgr.	Other Not Classified		848	**594**	**0.73**	**-223.41**
10300602	Boilers	al	Natural Gas	Btu/hr	497	**527**	**1.81**	**236.08**
50100102	Solid Waste Disposal	Government	Municipal Incineration	Mass Burn	592	**592**	**1.00**	**0.00**
20200401	Engines	Industrial	Large Bore Engine	Diesel	249	**432**	**1.15**	**56.93**
10200501	Boilers	Industrial	Distillate Oil	Grades 1 and 2 Oil	491	**445**	**1.44**	**134.93**
10300401	Boilers	al	Residual Oil	Grade 6 Oil	452	**471**	**1.17**	**67.64**
10300603	Boilers	al	Natural Gas	< 10 Million Btu/hr	265	**234**	**2.06**	**120.49**
20200402	Engines	Industrial	Large Bore Engine	Dual Fuel (Oil/Gas)	120	**141**	**1.35**	**36.72**
20200201	Engines	Industrial	Natural Gas	Turbine	77	**116**	**1.64**	**45.09**
10300501	Boilers	al	Distillate Oil	Grades 1 and 2 Oil	114	**126**	**1.33**	**31.51**
10200204	Boilers	Industrial	Coal	Spreader Stoker	88	**57**	**1.00**	**0.00**
30600201	Industrial Processes	Petroleum Industry	Catalytic Cracking Units	Fluid Cat. Cracking	112	**67**	**1.00**	**0.00**
10201001	Boilers	Industrial	LPG	Butane	53	**70**	**1.66**	**27.80**
20200252	Engines	Industrial	Natural Gas	2-cycle Lean Burn	39	**59**	**1.00**	**0.00**
20200101	Engines	Industrial	Distillate Oil (Diesel)	Turbine	38	**65**	**1.31**	**15.40**

* Rates for engines, in italics, above, are expressed in grams/hp-hour. See Note 5, below.

NOTES

1 Uncontrolled rates for boilers are median rates reported in 1990 NJ Emission Statements f

2 Controlled rate multiplied by 1.11 to account for estimated portion of sources below NJ's N

3 Controlled rate varies by firing method and size of boiler. Average of three rates for non-ta

4 Emissions rate not available. No additional controls assumed.

5 Uncontrolled rates for engines are from AP-42 files downloaded from www.epa.gov/ttn/chi

NJ NOx RACT rate, 1.5 to 8 g/hphr, averaged to 4.75 g/hphr.

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7 NJ NOx RACT requirement for units >= 50 and < 100 MMBtu/hr assumed to apply.

8 Source information insufficient to determine exact NJ NOx RACT control rate; 50% CE ass

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SCC1_DESC **SCC3_DESC** **SCC6_DESC** **SCC8_DESC**

Table 4
Non-electricity-generating Units Not Included
Source Classification Codes (SCCs) wit
Estimated Pre-1995 Uncontrolled Emissions Rates, Estimated C
Ratio of Estimated Controlled Rate to E

SCC Number	Description	Sector	Fuel	Size	Sum Of SNOX95[1]	SNOX07/ SNOX95 (net growth factor)	Sum Of SNOX07[2]	Sum Of SBNOX[3]	Projected NJ 2007 w/o add'l controls[4]	Count Of NJpoint
10300601	Boilers	al	Natural Gas	> 100 Million Btu/hr	2102	1.41	2959	3089	2900	2
10200602	Boilers	Industrial	Natural Gas	Btu/hr	1562	1.08	1680	1722	3156	171
10200401	Boilers	Industrial	Residual Oil	Grade 6 Oil	1874	1.10	2059	1490	2420	198
39999994	Industrial Processes	Misc. Mfgr.	Processes	Classified	2165	1.07	2326	2326	2326	66
30199998	Industrial Processes	Chemical Mfgr.	Other Not Classified	na	1705	1.14	1940	1940	1940	365
10200601	Boilers	Industrial	Natural Gas	> 100 Million Btu/hr	527	1.11	587	605	568	385
20200202	Engines	Industrial	Natural Gas	Reciprocating	997	1.23	1227	1227	728	27
10200603	Boilers	Industrial	Natural Gas	< 10 Million Btu/hr	421	1.06	448	459	1011	1
30199999	Industrial Processes	Chemical Mfgr.	Other Not Classified		817	1.12	913	913	947	91
10300602	Boilers	al	Natural Gas	Btu/hr	291	1.27	370	370	631	66
50100102	Solid Waste Disposal	Government	Municipal Incineration	Mass Burn	592	0.86	509	509	509	19
20200401	Engines	Industrial	Large Bore Engine	Diesel	375	1.24	464	464	309	88
10200501	Boilers	Industrial	Distillate Oil	Grades 1 and 2 Oil	310	1.16	361	325	572	53
10300401	Boilers	al	Residual Oil	Grade 6 Oil	403	1.23	495	495	555	3
10300603	Boilers	al	Natural Gas	< 10 Million Btu/hr	113	1.19	135	135	315	3
20200402	Engines	Industrial	Large Bore Engine	Dual Fuel (Oil/Gas)	104	1.18	123	123	141	11
20200201	Engines	Industrial	Natural Gas	Turbine	71	1.21	85	85	93	19
10300501	Boilers	al	Distillate Oil	Grades 1 and 2 Oil	94	1.19	112	112	136	3
10200204	Boilers	Industrial	Coal	Spreader Stoker	57	1.12	63	63	98	105
30600201	Industrial Processes	Petroleum Industry	Catalytic Cracking Units	Fluid Cat. Cracking	67	0.94	63	63	106	19
10201001	Boilers	Industrial	LPG	Butane	42	1.11	47	47	59	2
20200252	Engines	Industrial	Natural Gas	2-cycle Lean Burn	59	1.23	73	73	48	1
20200101	Engines	Industrial	Distillate Oil (Diesel)	Turbine	49	1.15	56	56	43	1

* Rates for engines, in italics, above, are expressed in grams/hp-hour. See Note 5, below.

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