TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

2005 & 2006 Episodic Ozone Modeling EI Development Update

Southeast Texas Photochemical Modeling Technical Committee Meeting
June 20, 2007

24 Pages
June 20, 2007

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Air Quality Division

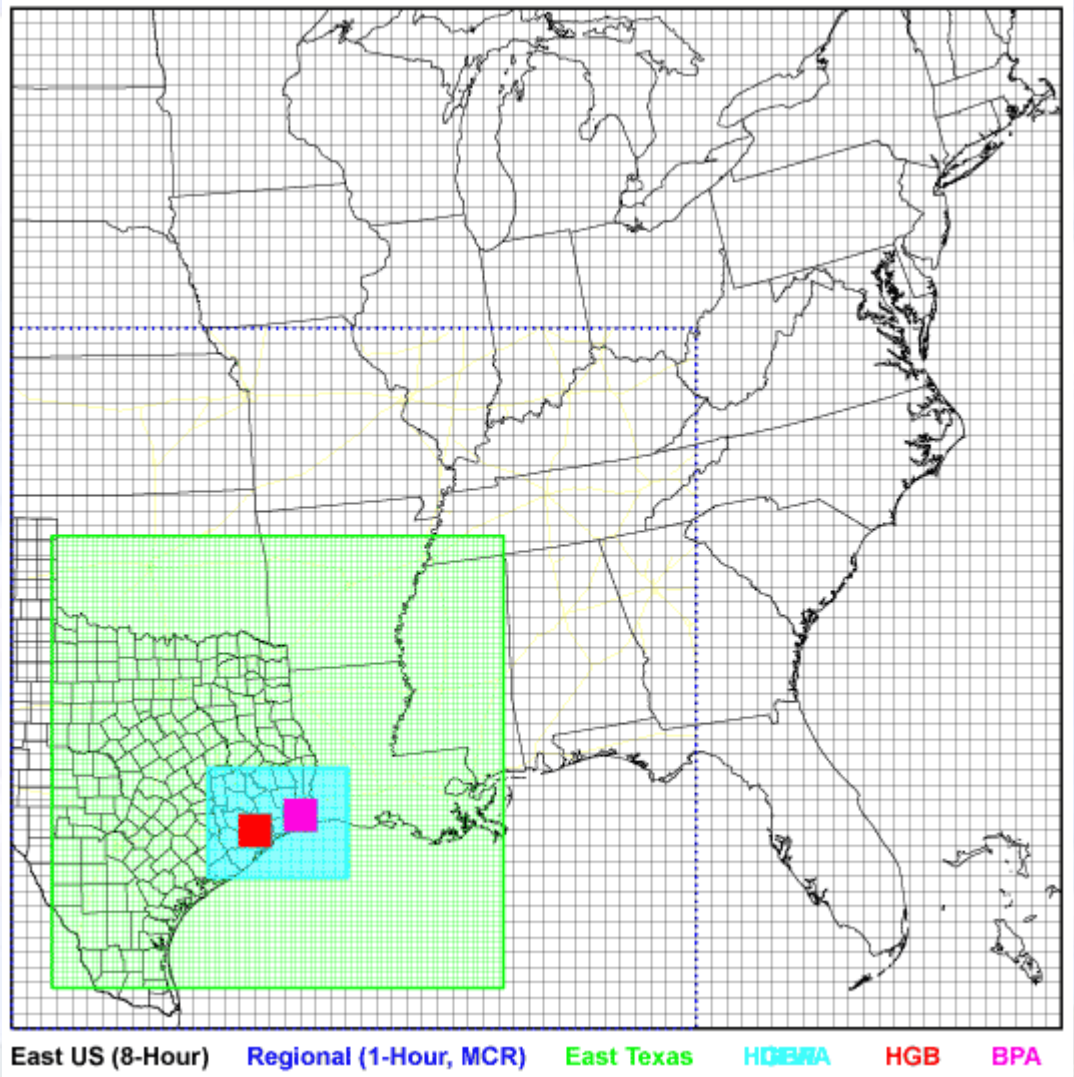
Today's Presentation

- **Point Source Updates**
  - 2005 STARS
  - 2005 Hourly
    - Acid Rain Program
    - Preliminary Special Inventory Analyses
    - Preliminary CCEDS Processing
- **Area Source Update**
- **Overall 2005 & 2006 Modeling Episodes Preview**

2005 & 2006 HGB Episodes

- **May 19 – June 3, 2005**
  - School in session until Thursday May 26
  - Memorial Day weekend from May 27-30
  - Special Inventory May 3 – May 7 and May 12 – June 4
  - CCEDS data
- **June 15 – June 30, 2005**
  - CCEDS data
- **July 26 – August 8, 2005**
  - CCEDS data
- May 31 – June 16, 2006
  - CCEDS data
- August 1 – October 15, 2006
  - Period of TexAQS II Study
  - Not all calendar days considered
  - Includes school, non-school, and Labor Day weekend
  - Special Inventory August 15 – September 15
  - CCEDS data

HGB CAMx Modeling Domain



Point Source Updates

- **2005 STARS data**
  - Extracted after June 1 NEI/CERR submittal to EPA
  - Converted to AFS
  - Replacing 2004
  - Comparing to 2004
  - Not fully quality assured/controlled
  - Began EPS3 processing this week
    - Re-speciate
    - Re-allocate temporally
    - Re-evaluate PiGs
  - Substitute episodic Hourly (Acid Rain, CCEDS, SI) where applicable
  - Rerun the preliminary photochemical model runs

Point Source Updates

One QA step: Top 100 VOC comparison (excerpt)

COMPANY	SITE	FIN	EPN	ANNUAL TPY	REPORTED O3 PPD	SUMMER %	DAYS/WEEK	OSD ppd	**OSD tpd**
INTERNATIONAL PAPER CO	TEXARKANA MILL	WWTS1	WWTS1	1654.8869	9067.8755	25	7	9067.88	**4.53394**
ROC GAS COMPANY CARE O	PIKES PEAK PLANT	01005	01005	1102.205	0	25	7	6039.48	**3.01974**
MOTIVA ENTERPRISES, L.L.C.	PORT ARTHUR PLANT	FKFCCU1/2	FKFCCU1/2	676.9563	3709.3494	25	7	3709.35	**1.85467**
SOUTHERN UNION GAS SERV	GREY RANCH TREATING PLAI	VENT	VENT	563.07	0	25	7	3085.32	**1.54266**
TEMPLE-INLAND FOREST PRO	DIBOLL FACILITY	FB-BLOPIT1	FB-11	482.2387	2753.0374	25	7	2753.04	**1.37652**
PHILLIPS 66 CO	BORGER REFINERY	P-2	F-2	488.0192	0	25	7	2674.08	**1.33704**
NRG TEXAS LP	RELIANT ENERGY LIMESTONE	2	LMS2	123.869	2660.554	26	7	2660.55	**1.33028**
COPANO PROCESSING LP	HOUSTON CENTRAL GAS PLA	CO2VENT	CO2 VENT	485.27	2658.99	25	7	2658.99	**1.32950**
THE GOODYEAR TIRE & RUBE	BEAUMONT CHEMICAL PLANT	880FB	286F	448.865	2459.537	25	7	2459.54	**1.22977**
TEMPLE-INLAND FOREST PRO	DIBOLL FACILITY	LU-KILN1	LU-05-FU	99.2251	2006.3121	25	5	2006.31	**1.00316**
TEMPLE-INLAND FOREST PRO	DIBOLL FACILITY	LU-KILN W1	LU-04-FU	99.2197	2006.3121	25	5	2006.31	**1.00316**
EASTMAN CHEMICAL COMPA	TEXAS OPERATIONS	OL226FG1	F226FG1	363.0811	1989.5372	25	7	1989.54	**0.99477**
THE GOODYEAR TIRE & RUBE	BEAUMONT CHEMICAL PLANT	840FB	236F	236.102	1971.233	25	7	1971.23	**0.98562**
HOLCIM TEXAS LIMITED PART	HOLCIM (TEXAS) LP	07*	07*	295.2651	1921.5881	30	7	1921.59	**0.96079**
DIAMOND SHAMROCK REFINI	THREE RIVERS REFINERY	FUG28VHP	FUG28VHP	342.8831	1873.6768	25	7	1873.68	**0.93684**

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Top 100 total = 66.6 tpd

Point Source Updates

Another QA step: Top 100 NOx comparison (excerpt)

COMPANY	SITE	FIN	EPN	ANNUAL TPY	REPORTED O3 PPD	SUMMER %	DAYS/WEEK	OSD ppd	**OSD tpd**
PUBLIC SERVICE CO OF OKLAHO	OKLAUNION POWER STATION	OPS1	1	8128.22	47709	26	7	47709.00	**23.85450**
TXU GENERATION COMPANY LP	STATION	B3	S3	6936.459	37657.1225	26	7	37657.12	**18.82856**
NRG TEXAS LP	RELIANT ENERGY LIMESTONE	2	LMS2	5704	35554	26	7	35554.00	**17.77700**
SOUTHWESTERN PUBLIC SERVIC	TOLK STATION	UNIT 1	1-1	6367.64	0	25	7	34891.18	**17.44559**
NRG TEXAS LP	RELIANT ENERGY LIMESTONE	1	LMS1	6175	33733	25	7	33733.00	**16.86650**
TXU GENERATION COMPANY LP	STATION	U3-B3	S-3	5072.462	33164.2945	27	7	33164.29	**16.58215**
TXU GENERATION COMPANY LP	STATION	U2-B2	S-2	5540.109	32297.5474	23	7	32297.55	**16.14877**
TXU GENERATION COMPANY LP	STATION	U1-B1	S-1	5586.329	31865.2115	25	7	31865.21	**15.93261**
TXU GENERATION COMPANY LP	SANDOW STEAM ELECTRIC	S4MB	S03	4774.215	29277.261	24	7	29277.26	**14.63863**
SOUTHWESTERN ELECTRIC POW	AEP PIRKEY POWER PLANT	P-16	16	4625	28152.17	28	7	28152.17	**14.07609**
SOUTHWESTERN PUBLIC SERVIC	HARRINGTON STATION	UNIT 3	3-1	5058.55	0	25	7	27718.08	**13.85904**
SOUTHWESTERN PUBLIC SERVIC	TOLK STATION	UNIT 2	2-1	4680.138	0	25	7	25644.59	**12.82230**
CITY PUBLIC SERVICE	POWER	P-5	U-5	4026.9	24151.6	28	7	24151.60	**12.07580**
SOUTHWESTERN ELECTRIC POW	WELSH POWER PLANT	W-02	02	3015	24004	37	7	24004.00	**12.00200**
SOUTHWESTERN PUBLIC SERVIC	HARRINGTON STATION	UNIT 1	1-1	4293.76	0	25	7	23527.45	**11.76373**

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Top 100 total = 591.7 tpd

Hourly Data Updates

- **2005 Acid Rain Program**
  - New query (not only TX)
  - Substitution
  - QA of AFS vs. ARP raw
    - Daily totals, boiler totals for TX and adjacent states, states totals for Region
    - Random sampling of a day
    - Comparing to previous EPS3 runs

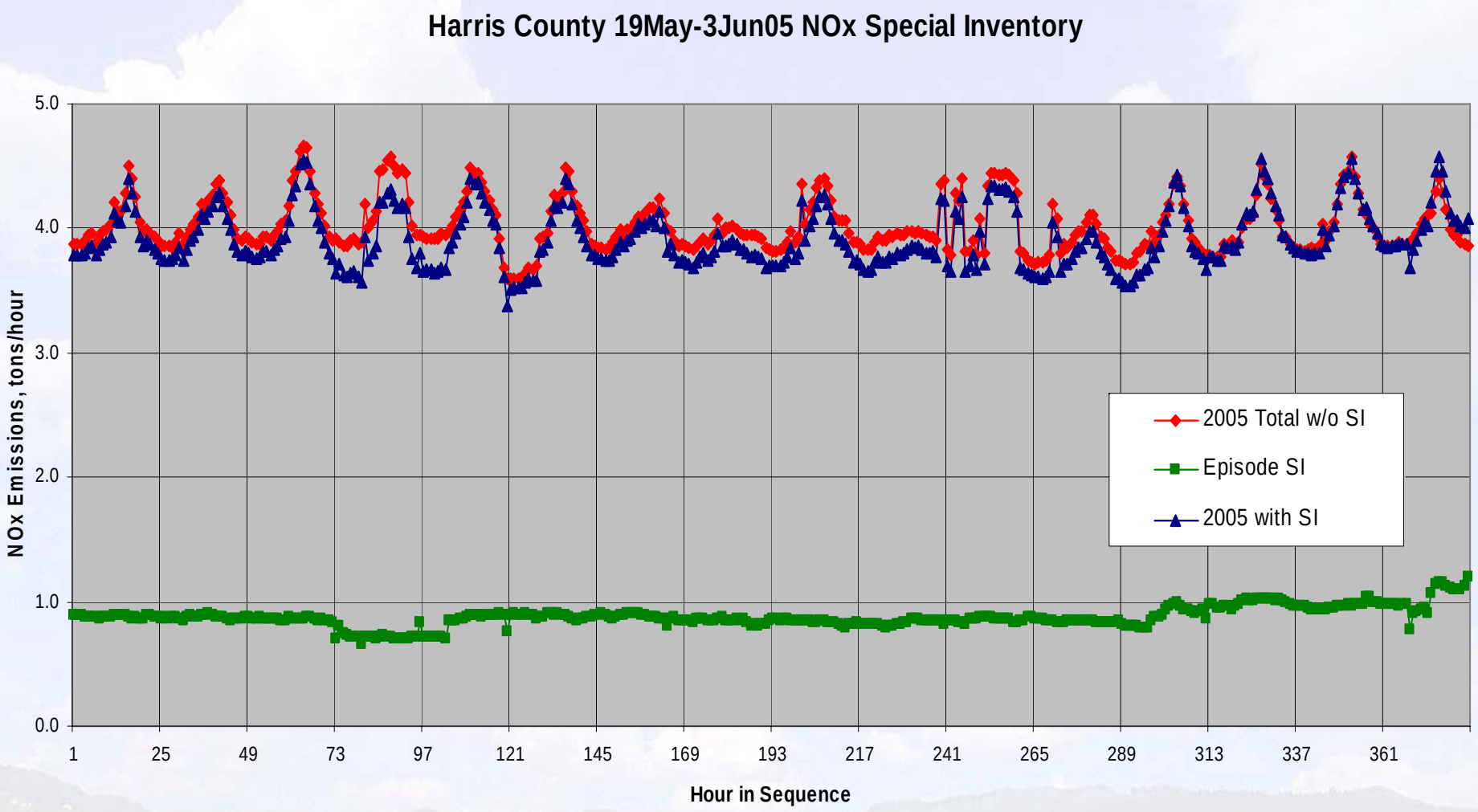
Hourly Data Updates

- **2005 Special Inventory**
  - May 19 – June 3 episode
  - Quality Assuring
    - Comparing STARS extract and raw HEIRS submittals
    - Logistics tracking
    - Path-day summaries
  - Preliminary Analyses
  - Improved speciation procedure
    - Every hour receives a separate profile
    - Previously received an episode average

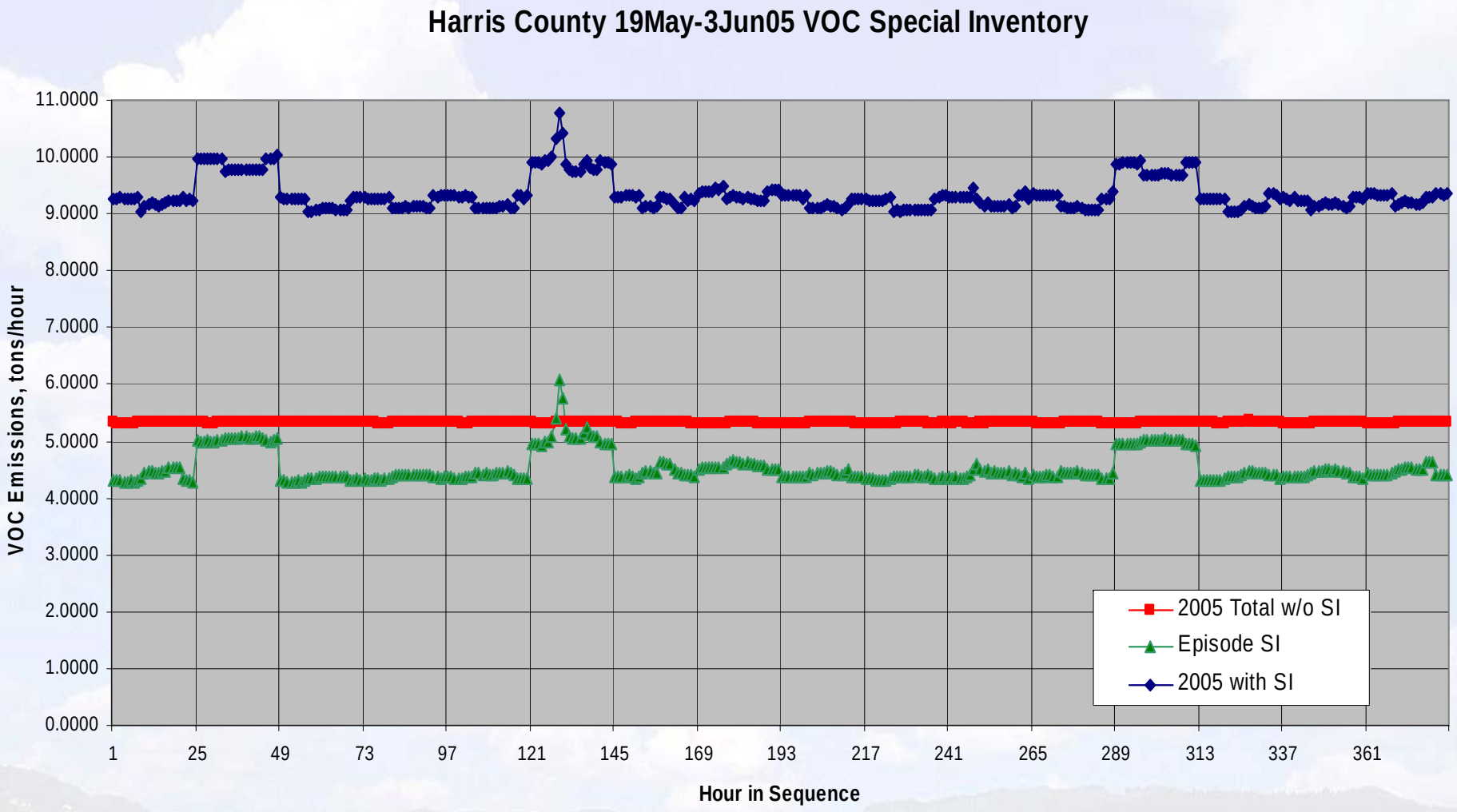
Hourly Data Updates

- **2005 Special Inventory Statistics**
  - Substituting ~150 paths (VOC, NOx & VOC) at 22 accounts (36 were requested) in Harris Co. for every hour of the episode
  - Eliminated 4 of the 22 due to minimal hours reported with minimal emissions
  - ~743,000 path-pollutant-hour records
  - ~73% reported “Normal” reason code
  - Shell in particular
    - Overwhelming majority of emissions for this SI episode
    - ~10% records were Shell, 86% were “Normal”, ~3% “BL”, several “US” NOx

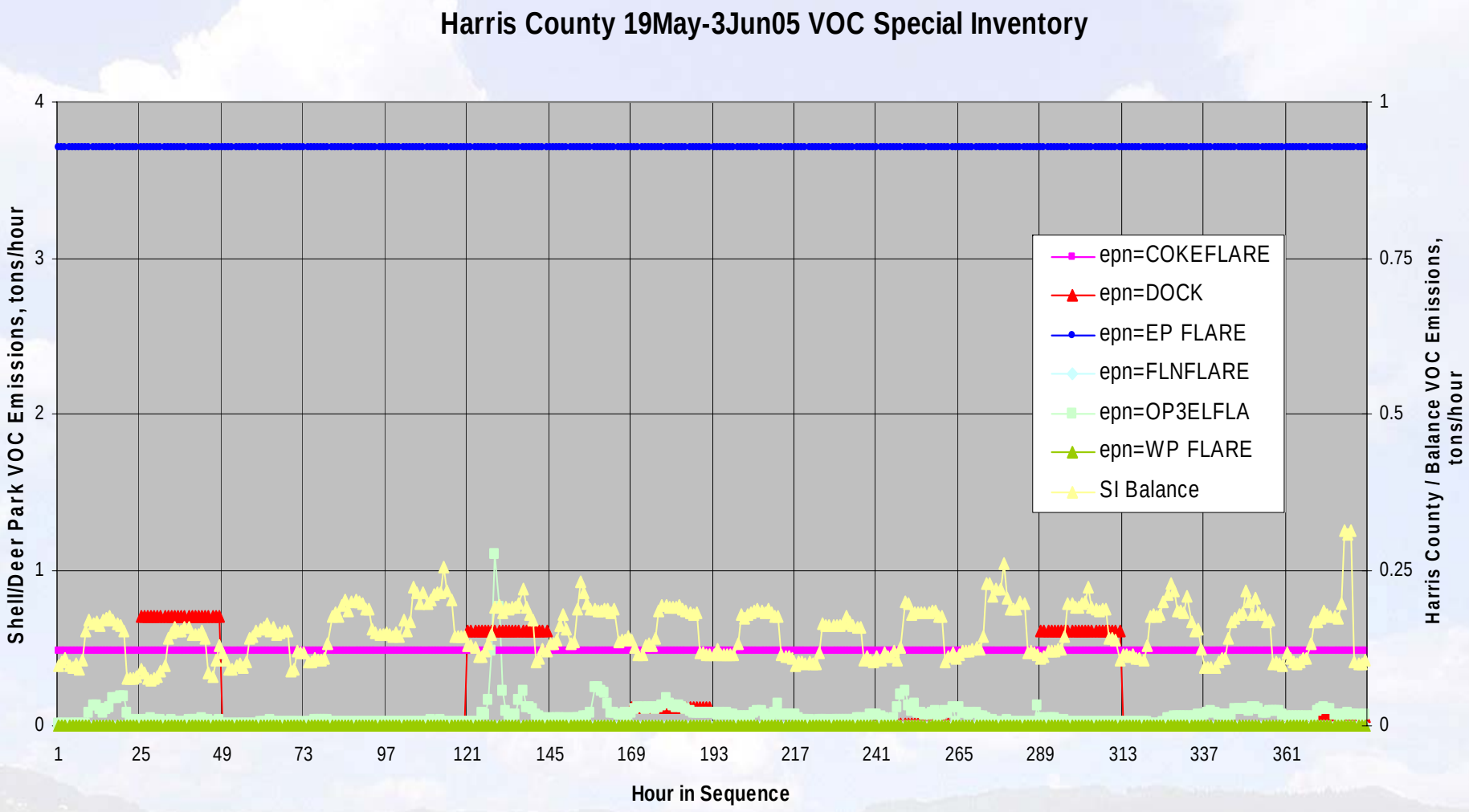
Special Inventory



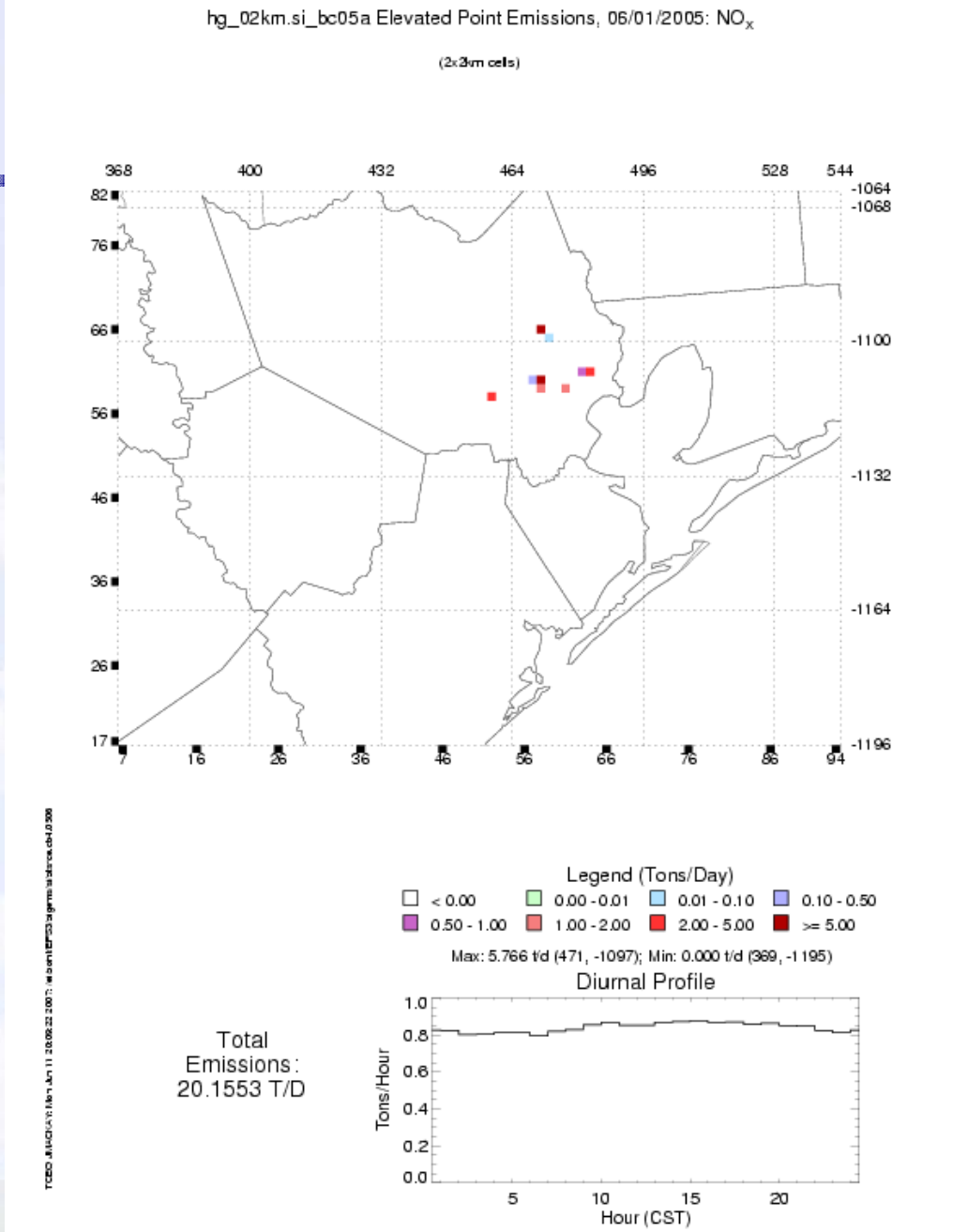
Special Inventory



Special Inventory

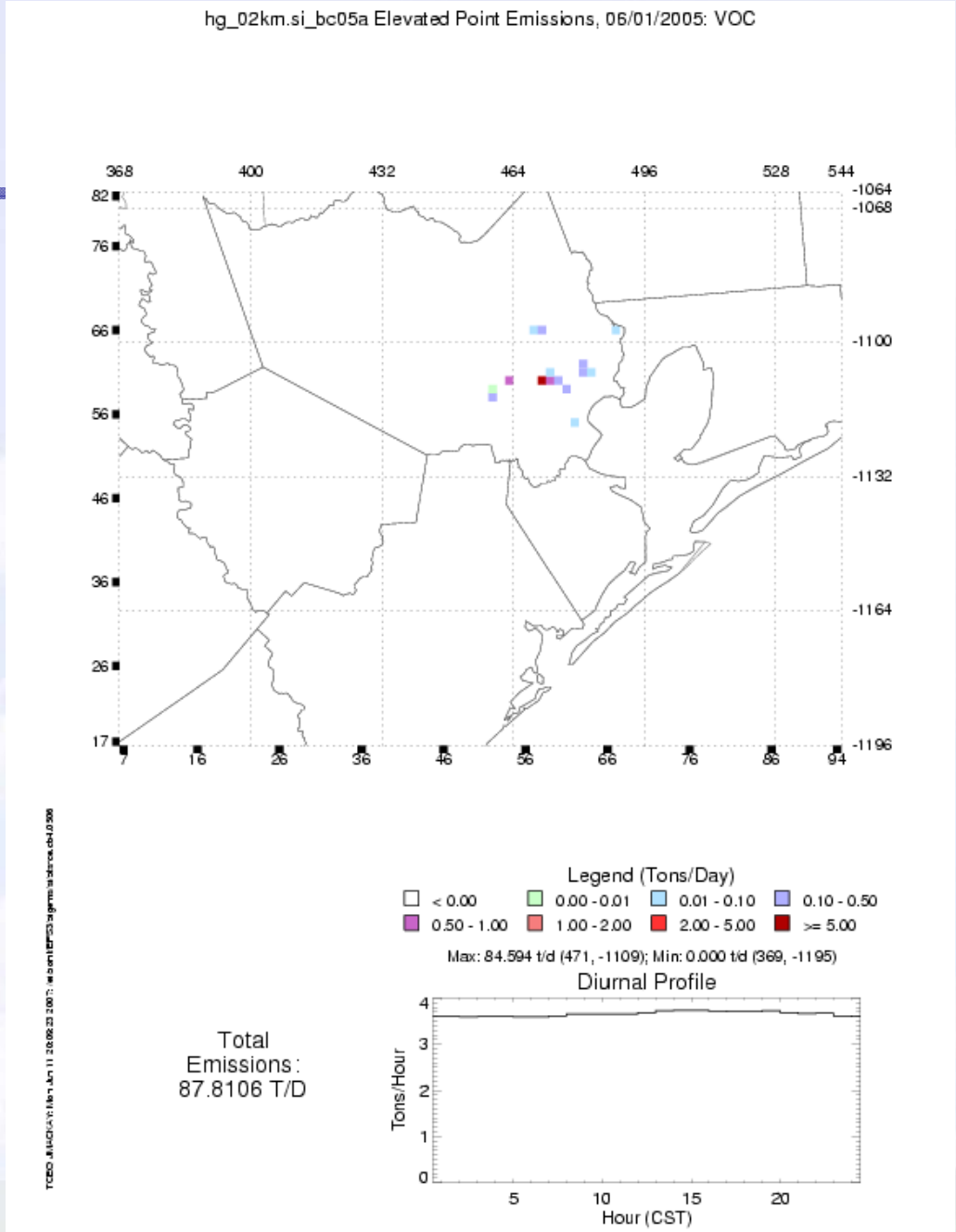


Preliminary 2005 NOx Special Emissions Only



Total Emissions: 20.1553 T/D

Preliminary 2005 VOC Special Emissions Only



Hourly Data Updates

- **2005 CCEDS data (preliminary)**
  - Modeling as addition to all other point source AFS files
  - Matched “EPN_FIN_NUM” to 2005 path
  - Start with June episode
  - Creating AFS file containing 65 unspeciated records for 27 paths at 16 accounts for every hour of the event
  - Preliminary runs will be with the worst-case (“fully condensed”) emission rate to test sensitivity to ozone production in model
  - One speciation profile for each path-event

June 2005 CCEDS Preliminary Processing

Matching excerpt

REG_ENT_NUM	REG_ENT_NAME	CITY	FIN_EPN_NUM	adjustFIN	adjustEPN	UNIT_NAME	StartDate	StartTime	Duration Hours	CONTAMINANT	Contam Code	QTY_RELEASED	LbsPer Hour	PartCondPPH	FullCondPPH
RN1002383	VALERO REFININ	TEXAS CITY	CT-04	CT-4	CT-4	Cooling Water Tower #4	6/18/2005	9:08:00	25.32	Isobutene	HRVOC	12	0	0	0
RN1002181	HOUSTON REFINE	HOUSTON	233PSV0007	233-UNIT	233-UNIT	PSV 233-0007	6/19/2005	4:40:00	2.08	butenes	HRVOC	6891	3308	3308	3308
RN1002181	HOUSTON REFINE	HOUSTON	233PSV0007	233-UNIT	233-UNIT	PSV 233-0007	6/19/2005	4:40:00	2.08	Propylene (Prope	HRVOC	223	107	107	107
RN100524C	BAYPORT POLYE	PASADENA	1-167	P-1PE	1-167	PE Flare	6/23/2005	10:00:00	24	Ethylene (gaseo	HRVOC	108	4	4	4
RN1025793	EXXON MOBIL BA	BAYTOWN	No EPN	FCCU3FUG	FCCU3FUG	Booster Station 4 - hole in pipe	6/29/2005	9:50:00	25	Propylene (Prope	HRVOC	22	1	1	1
RN1025793	EXXON MOBIL BA	BAYTOWN	No EPN	FCCU3FUG	FCCU3FUG	Booster Station 4 - hole in pipe	6/29/2005	9:50:00	25	Ethylene (gaseo	HRVOC	4	0	0	0
RN1025793	EXXON MOBIL BA	BAYTOWN	Flare27	FLARE27	FL27	Flare27	6/30/2005	10:30:00	11.8	Propylene (Prope	HRVOC	31	3	3	3
RN1025793	EXXON MOBIL BA	BAYTOWN	Flare27	FLARE27	FL27	Flare27	6/30/2005	10:30:00	11.8	Ethylene (gaseo	HRVOC	5	0	0	0
RN1002118	SHELL OIL DEER	DEER PARK		H600	V603	Flare feed line	6/30/2005	12:20:00	3	Butene	HRVOC	9	3	3	3
RN1002118	SHELL OIL DEER	DEER PARK	H-600	H600	H600	CO Heater	6/15/2005	16:51:00	66	Nitrogen oxide	NOx	205	3	3	6
RN1040954	PRAXAIR BP REFI	TEXAS CITY	HU4-FL	HU2-L301	HU2-L301	Hydrogen Complex Flare	6/21/2005	7:00:00	20	Nitrogen oxide	NOx	430	21	21	21
RN1040954	PRAXAIR BP REFI	TEXAS CITY	HU4-FL	HU2-L301	HU2-L301	Hydrogen Complex Flare	6/21/2005	7:00:00	20	Nitrogen dioxide	NOx	55	3	3	3
RN100524C	BAYPORT POLYE	PASADENA	1-167	PEFLR	1-167	PE Flare	6/22/2005	10:00:00	40.28	Nitrogen monoxi	NOx	10	0	0	0
RN100524C	BAYPORT POLYE	PASADENA	1-167	PEFLR	1-167	PE Flare	6/22/2005	10:00:00	40.28	Nitrogen dioxide	NOx	1	0	0	0
RN1025793	EXXON MOBIL BA	BAYTOWN	Flare27	FLARE27	FL27	Flare27	6/30/2005	10:30:00	11.8	Nitrogen oxide	NOx	79	7	7	7
RN1025793	EXXON MOBIL BA	BAYTOWN	Flare27	FLARE27	FL27	Flare27	6/30/2005	10:30:00	11.8	Nitrogen dioxide	NOx	9	1	1	1
RN1002118	SHELL OIL DEER	DEER PARK	H-600	H600	H600	CO Heater	6/15/2005	16:51:00	66	VOC	VOC	63	1	1	2
RN1002383	VALERO REFININ	TEXAS CITY	CT-04	CT-4	CT-4	Cooling Water Tower #4	6/18/2005	9:08:00	25.32	Butane	VOC	8185	323	323	323
RN1002383	VALERO REFININ	TEXAS CITY	CT-04	CT-4	CT-4	Cooling Water Tower #4	6/18/2005	9:08:00	25.32	Isobutane	VOC	794	31	31	31
RN1002383	VALERO REFININ	TEXAS CITY	CT-04	CT-4	CT-4	Cooling Water Tower #4	6/18/2005	9:08:00	25.32	Pentane	VOC	621	25	25	25
RN1002383	VALERO REFININ	TEXAS CITY	CT-04	CT-4	CT-4	Cooling Water Tower #4	6/18/2005	9:08:00	25.32	Naphtha	VOC	142	6	6	6
RN1002383	VALERO REFININ	TEXAS CITY	CT-04	CT-4	CT-4	Cooling Water Tower #4	6/18/2005	9:08:00	25.32	Isopentane	VOC	4	0	0	0
RN1002383	VALERO REFININ	TEXAS CITY	CT-04	CT-4	CT-4	Cooling Water Tower #4	6/18/2005	9:08:00	25.32	c-2-pentene	VOC	1	0	0	0
RN1002181	HOUSTON REFINE	HOUSTON	233PSV0007	233-UNIT	233-UNIT	PSV 233-0007	6/19/2005	4:40:00	2.08	Butane	VOC	36437	17490	17490	17490
RN1002181	HOUSTON REFINE	HOUSTON	233PSV0007	233-UNIT	233-UNIT	PSV 233-0007	6/19/2005	4:40:00	2.08	Pentanes	VOC	6683	3208	3208	3208
RN1002181	HOUSTON REFINE	HOUSTON	233PSV0007	233-UNIT	233-UNIT	PSV 233-0007	6/19/2005	4:40:00	2.08	3-Methyl-1-buten	VOC	811	389	389	389
RN1002181	HOUSTON REFINE	HOUSTON	233PSV0007	233-UNIT	233-UNIT	PSV 233-0007	6/19/2005	4:40:00	2.08	1,2 - Butadiene	VOC	11	5	5	5
RN1025793	EXXON MOBIL BA	BAYTOWN	No EPN	FCCU3FUG	FCCU3FUG	Booster Station 4 - hole in pipe	6/29/2005	9:50:00	25	VOC	VOC	99	4	4	4
RN1025793	EXXON MOBIL BA	BAYTOWN	No EPN	FCCU3FUG	FCCU3FUG	Booster Station 4 - hole in pipe	6/29/2005	9:50:00	25	Butane, N-	VOC	98	4	4	4
RN1025793	EXXON MOBIL BA	BAYTOWN	No EPN	FCCU3FUG	FCCU3FUG	Booster Station 4 - hole in pipe	6/29/2005	9:50:00	25	Isopentane	VOC	78	3	3	3
RN1025793	EXXON MOBIL BA	BAYTOWN	No EPN	FCCU3FUG	FCCU3FUG	Booster Station 4 - hole in pipe	6/29/2005	9:50:00	25	Propane	VOC	72	3	3	3
RN1025793	EXXON MOBIL BA	BAYTOWN	No EPN	FCCU3FUG	FCCU3FUG	Booster Station 4 - hole in pipe	6/29/2005	9:50:00	25	Butane	VOC	41	2	2	2
RN1025793	EXXON MOBIL BA	BAYTOWN	No EPN	FCCU3FUG	FCCU3FUG	Booster Station 4 - hole in pipe	6/29/2005	9:50:00	25	Pentane	VOC	39	2	2	2
RN1025793	EXXON MOBIL BA	BAYTOWN	No EPN	FCCU3FUG	FCCU3FUG	Booster Station 4 - hole in pipe	6/29/2005	9:50:00	25	Isobutane	VOC	14	1	1	1
RN1025793	EXXON MOBIL BA	BAYTOWN	Flare27	FLARE27	FL27	Flare27	6/30/2005	10:30:00	11.8	VOC	VOC	136	12	12	12
RN1025793	EXXON MOBIL BA	BAYTOWN	Flare27	FLARE27	FL27	Flare27	6/30/2005	10:30:00	11.8	Butane, N-	VOC	134	11	11	11
RN1025793	EXXON MOBIL BA	BAYTOWN	Flare27	FLARE27	FL27	Flare27	6/30/2005	10:30:00	11.8	Isopentane	VOC	107	9	9	9
RN1025793	EXXON MOBIL BA	BAYTOWN	Flare27	FLARE27	FL27	Flare27	6/30/2005	10:30:00	11.8	Propane	VOC	98	8	8	8
RN1025793	EXXON MOBIL BA	BAYTOWN	Flare27	FLARE27	FL27	Flare27	6/30/2005	10:30:00	11.8	Butane	VOC	57	5	5	5
RN1025793	EXXON MOBIL BA	BAYTOWN	Flare27	FLARE27	FL27	Flare27	6/30/2005	10:30:00	11.8	Pentane	VOC	54	5	5	5
RN1025793	EXXON MOBIL BA	BAYTOWN	Flare27	FLARE27	FL27	Flare27	6/30/2005	10:30:00	11.8	Isobutane	VOC	20	2	2	2

Blue=	Simple spelling change
Pink=	Prefer equip. leak fug (in AFS2004) vs. cooling tower, only two choices for 233xxxx.
Orange=	Closest 'HUxxxx' match for a flare
Green=	Hole in pipe', we chose fugitive @ 3 meters.
Purple=	Chose a low VOC stack
Red=	Only RN for Sunoco/Bayport with 1-167 for VOC, NOx, CO

June 2005 CCEDS Preliminary Processing

Total NOx for this episode

RN	owner	account	fin	epn	fips	plant	stack	point	begin_hr	polcode	polluta	EventTons
RN100225	DOW CHEMICAL (	BL0023K	B60F3	B60F3	48039	16	663	1351	227	42603	NOx	7.30
RN100225	DOW CHEMICAL (	BL0023K	B72S30	B72S30	48039	16	257	249	227	42603	NOx	0.00
RN100238	SOLUTIA INC	BL0038U	70Z522	70Z522	48039	9	445	367	15	42603	NOx	0.00
RN100825	CHEVRON PHILLI	BL0758C	56-61-10	56-61-10	48039	145	48	56	-29	42603	NOx	0.10
RN100825	CHEVRON PHILLI	BL0758C	56-61-10	56-61-10	48039	145	48	56	279	42603	NOx	0.10
RN100825	CHEVRON PHILLI	BL0758C	56-61-12	56-61-12	48039	145	51	57	-29	42603	NOx	0.10
RN100825	CHEVRON PHILLI	BL0758C	56-61-12	56-61-12	48039	145	51	57	279	42603	NOx	0.10
RN100825	CHEVRON PHILLI	BL0758C	56-61-14	56-61-14	48039	145	61	58	163	42603	NOx	0.12
RN100825	CHEVRON PHILLI	BL0758C	56-61-20	56-61-20	48039	145	62	59	163	42603	NOx	0.12
RN100825	CHEVRON PHILLI	BL0758C	56-61-22	56-61-22	48039	145	75	60	32	42603	NOx	1.29
RN102323	ENTERPRISE PR(	CI0008R	45	45	48071	7	81	88	308	42603	NOx	0.10
RN102535	BP PRODUCTS N(	GB0004L	321	321	48167	1	243	276	127	42603	NOx	0.02
RN104095	PRAXAIR INC	GBA005E	HU2-L301	HU2-L301	48167	139	9	9	103	42603	NOx	0.24
RN100212	TOTAL PETROCH	HG0036S	ES-805	ES-805	48201	8	93	88	117	42603	NOx	0.03
RN100212	TOTAL PETROCH	HG0036S	ES-805	ES-805	48201	8	93	88	144	42603	NOx	0.03
RN100219	VALERO REFININ(	HG0130C	42CB2001	42CB2001	48201	65	146	447	251	42603	NOx	0.07
RN102579	EXXONMOBIL COF	HG0232Q	FLARE27	FL27	48201	27	491	490	323	42603	NOx	0.04
RN100223	ROHM & HAAS TE	HG0632T	HT-11	HT-11	48201	34	582	547	106	42603	NOx	0.16
RN100211	SHELL OIL CO	HG0659W	H600	H600	48201	39	208	208	-31	42603	NOx	0.10
RN100524	SUNOCO INC R&M	HGA009I	PEFLR	1-167	48201	1559	124	31	130	42603	NOx	0.01
									Total tons in episode			**10.02**

June 2005 CCEDS Preliminary Processing

Total VOC for this episode

RN	owner	account	fin	epn	fips	plant	stack	point	begin_hr	polcode	polluta	EventTons
RN100225	DOW CHEMICAL (	BL0023K	B60F3	B60F3	48039	16	663	434	227	43104	VOC	74.45
RN100238	SOLUTIA INC	BL0038U	70Z522	70Z522	48039	9	445	367	15	43104	VOC	0.01
RN100825	CHEVRON PHILLI	BL0758C	56-61-10	56-61-10	48039	145	48	56	-29	43104	VOC	0.82
RN100825	CHEVRON PHILLI	BL0758C	56-61-10	56-61-10	48039	145	48	56	279	43104	VOC	0.82
RN100825	CHEVRON PHILLI	BL0758C	56-61-12	56-61-12	48039	145	51	57	-29	43104	VOC	0.82
RN100825	CHEVRON PHILLI	BL0758C	56-61-12	56-61-12	48039	145	51	57	279	43104	VOC	0.82
RN100825	CHEVRON PHILLI	BL0758C	56-61-14	56-61-14	48039	145	61	58	163	43104	VOC	0.30
RN100825	CHEVRON PHILLI	BL0758C	56-61-20	56-61-20	48039	145	62	59	163	43104	VOC	0.30
RN100825	CHEVRON PHILLI	BL0758C	56-61-22	56-61-22	48039	145	75	60	32	43104	VOC	3.60
RN102323	ENTERPRISE PR(	CI0008R	45	45	48071	7	81	88	308	43104	VOC	0.73
RN102535	BP PRODUCTS N(	GB0004L	F-30	F-30	48167	1	228	274	128	43104	VOC	0.20
RN100238	VALERO REFININ(	GB0073P	CT-4	CT-4	48167	7	172	172	33	43104	VOC	4.88
RN100217	OILTANKING TEX	GB0077H	E15A079	E15A079	48167	15	115	115	128	43104	VOC	0.30
RN100212	TOTAL PETROCH	HG0036S	ES-805	ES-805	48201	8	93	176	117	43104	VOC	0.35
RN100212	TOTAL PETROCH	HG0036S	ES-805	ES-805	48201	8	93	176	144	43104	VOC	0.35
RN100218	HOUSTON REFINI	HG0048L	233-UNIT	233-UNIT	48201	40	998	222	53	43104	VOC	25.53
RN100219	VALERO REFININ(	HG0130C	42CB2001	42CB2001	48201	65	146	447	251	43104	VOC	0.00
RN102579	EXXONMOBIL COF	HG0232Q	FCCU3FU(	FCCU3FU(	48201	27	314	454	298	43104	VOC	0.23
RN102579	EXXONMOBIL COF	HG0232Q	FLARE27	FL27	48201	27	491	490	323	43104	VOC	0.32
RN102018	PHILLIPS CHEMIC	HG0566H	524	524	48201	48	108	137	333	43104	VOC	0.46
RN100211	SHELL OIL CO	HG0659W	D371	D371	48201	39	61	61	109	43104	VOC	0.10
RN100211	SHELL OIL CO	HG0659W	H600	H600	48201	39	208	208	-31	43104	VOC	0.03
RN100211	SHELL OIL CO	HG0659W	H600	V603	48201	39	1919	208	324	43104	VOC	0.00
RN100524	SUNOCO INC R&M	HGA009I	P-1PE	1-167	48201	1559	113	23	154	43104	VOC	0.05
									Total tons in episode			**115.48**

June 2005 CCEDS Preliminary Processing

Total CO for this episode

RN	owner	account	fin	epn	fips	plant	stack	point	begin_hr	polcode	polluta	EventTons
RN100225	DOW CHEMICAL (	BL0023K	B60F3	B60F3	48039	16	663	1351	227	42101	CO	52.71
RN100225	DOW CHEMICAL (	BL0023K	B72S30	B72S30	48039	16	257	249	227	42101	CO	0.01
RN100238	SOLUTIA INC	BL0038U	70Z522	70Z522	48039	9	445	367	15	42101	CO	0.02
RN100238	SOLUTIA INC	BL0038U	83S14	83S14	48039	9	365	316	111	42101	CO	0.00
RN100825	CHEVRON PHILLI	BL0758C	56-61-10	56-61-10	48039	145	48	56	-29	42101	CO	0.69
RN100825	CHEVRON PHILLI	BL0758C	56-61-10	56-61-10	48039	145	48	56	279	42101	CO	0.69
RN100825	CHEVRON PHILLI	BL0758C	56-61-12	56-61-12	48039	145	51	57	-29	42101	CO	0.69
RN100825	CHEVRON PHILLI	BL0758C	56-61-12	56-61-12	48039	145	51	57	279	42101	CO	0.69
RN100825	CHEVRON PHILLI	BL0758C	56-61-14	56-61-14	48039	145	61	58	163	42101	CO	0.31
RN100825	CHEVRON PHILLI	BL0758C	56-61-20	56-61-20	48039	145	62	59	163	42101	CO	0.31
RN100825	CHEVRON PHILLI	BL0758C	56-61-22	56-61-22	48039	145	75	60	32	42101	CO	6.59
RN102323	ENTERPRISE PR	CI0008R	45	45	48071	7	81	88	308	42101	CO	0.21
RN102535	BP PRODUCTS N	GB0004L	321	321	48167	1	243	276	127	42101	CO	0.13
RN104095	PRAXAIR INC	GBA005E	HU2-L301	HU2-L301	48167	139	9	9	103	42101	CO	4.25
RN100212	TOTAL PETROCH	HG0036S	ES-805	ES-805	48201	8	93	88	117	42101	CO	0.24
RN100212	TOTAL PETROCH	HG0036S	ES-805	ES-805	48201	8	93	88	144	42101	CO	0.24
RN100219	VALERO REFININ	HG0130C	42CB2001	42CB2001	48201	65	146	447	251	42101	CO	0.02
RN102579	EXXONMOBIL CO	HG0232Q	FCCU3FU	FCCU3FU	48201	27	314	454	298	42101	CO	0.00
RN102579	EXXONMOBIL CO	HG0232Q	FLARE27	FL27	48201	27	491	490	323	42101	CO	0.57
RN100211	SHELL OIL CO	HG0659W	H600	H600	48201	39	208	208	-31	42101	CO	3.35
RN100524	SUNOCO INC R&M	HGA009I	PEFLR	1-167	48201	1559	124	31	130	42101	CO	0.04
									Total tons in episode			**71.77**

Point Source Updates

- **Outside of Texas**
  - Obtained Arkansas 2005 state NEI submittal
  - Obtaining Oklahoma 2005 state NEI submittal
  - Converting Louisiana 2004 state NEI submittal
  - Matching Acid Rain units for the above
  - Awaiting 2005 offshore update from MMS

Area Source Inventory Update

HGB 8 County	2002 v	2005_b6	2005_b6a	2005_b7
	2002 TexAER	2002 TexAER projected by jdm	2002 TexAER projected to 2005 but with new OilnGasp	2005 TexAER with new OilnGasp
	area02_b6_8co	**area05_b6_8co**	**area05_b6wNEWoilgasp**	**area05_b7wNEWoilngasp**
Category	**NOx (tpd)**	**NOx (tpd)**	**NOx (tpd)**	**NOx (tpd)**
OILGOFF	0.85	0.85	0.85	0.89
OILGASP	22.53	22.89	23.39	23.39
INDFUEL	15.92	16.21	16.21	10.47
RESFUEL	2.25	2.29	2.29	2.29
OPENBRN	0.7	0.73	0.73	0.57
Total Nox	**42.25**	**42.98**	**43.47**	**37.61**
	area02_b6_8co	**area05_b6_8co**	**area05_b6wNEWoilgasp**	**area05_b7wNEWoilngasp**
Category	**VOC (tpd)**	**VOC (tpd)**	**VOC (tpd)**	**VOC (tpd)**
PETROGAS	66.44	67.62	67.62	68.46
ARCHCOT	27.98	30.36	30.36	30.35
OILGOFF	0.14	0.14	0.14	0.15
OILGASP	17.14	17.39	238.33	238.33
SOLVENT	66.16	70.23	70.23	56.48
SURCLEN	0.95	1.05	1.05	1.05
INDFUEL	0.52	0.53	0.53	0.44
RESFUEL	0.13	0.13	0.13	0.13
AUTOREF	3.01	3.18	3.18	3.18
WASTRET	7.78	7.96	7.96	6.93
GRAPHIC	0.92	0.91	0.91	0.91
PESTICD	0.01	0.01	0.01	0.01
LUST	2.41	2.34	2.34	2.34
TRAFMAR	0.61	0.6	0.6	0.6
SURCOAT	32.83	36.03	36.03	30.21
OPENBRN	9.02	9.42	9.42	8.46
DRYCLEN	2.81	2.8	2.8	2.8
ASPAVNG	8.41	8.49	8.49	1.05
FOODBREW	1.3	1.32	1.32	0.73
Total VOC	**248.56**	**260.54**	**481.45**	**452.61**
VOC total less On-shore OilNGasp	231.42	243.15	243.12	214.28

Overall 2005 & 2006 Modeling Episodes Preview

- Placed link to TX 2005 (all categories) NEI/CEER files on TexAQS webpage
- Expect that CB-05 will completely replace CB-IV; CB-05 can use ethane, methane default in CAMx
- May-June SI 2005 episode first run with CB-IV, then June CCEDS episode with CB-IV, then switch to CB-05
- “First cut” 2006 emissions inventory development in progress
- Data Analysis for potential emissions imputation in progress (e.g. PSCF)
- Inventory refinements will be ongoing for both 2005 and 2006

Questions