File OKD987072006
Part 13

NORIT Americas, Inc.
Pryor Facility
Full Impact Modeling, SO_2
PSDB Retrieval Data

Company	Facility	Facility Category	County	UTM Zone	UTM Hzn	UTM Vrt	SO2 (lb/hr)
CALPINE PRYOR INC	PRYOR COGENERATION	Major	MAYES	15	295.496	4012.818	0.2
CALPINE PRYOR INC	PRYOR COGENERATION	Major	MAYES	15	295.496	4012.818	0.2
CALPINE PRYOR INC	PRYOR COGENERATION	Major	MAYES	15	295.496	4012.818	0.2
CALPINE PRYOR INC	PRYOR COGENERATION	Major	MAYES	15	295.496	4012.818	0.2
CALPINE PRYOR INC	PRYOR COGENERATION	Major	MAYES	15	295.496	4012.818	0.3
CALPINE PRYOR INC	PRYOR COGENERATION	Major	MAYES	15	295.496	4012.818	0.2
CALPINE PRYOR INC	PRYOR COGENERATION	Major	MAYES	15	295.496	4012.818	0.2
CALPINE PRYOR INC	PRYOR COGENERATION	Major	MAYES	15	295.496	4012.818	0.2
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	295.073	4011.200	2.0
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	295.073	4011.200	1.2
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	295.073	4011.200	1.8
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	295.073	4011.200	1.8
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	295.073	4011.489	34.1
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	295.073	4011.489	0.8
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	295.073	4011.489	1.7
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	296.200	4011.100	2.3
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	296.200	4011.100	12.7
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	296.200	4011.100	0.9
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	295.073	4011.489	1.4
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	295.073	4011.489	1.8
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	295.073	4011.489	9.2
SOLAE CO LLC	SOY ISOLATE PRODUCTION PLT	Major	MAYES	15	295.073	4011.489	1.9
GRAND RIVER DAM AUTH	CHOUTEAU COAL FIRED COMPLE	Major	MAYES	15	294.073	4007.568	6157.2
GRAND RIVER DAM AUTH	CHOUTEAU COAL FIRED COMPLE	Major	MAYES	15	294.073	4007.568	3177.0
GRAND RIVER DAM AUTH	CHOUTEAU COAL FIRED COMPLE	Major	MAYES	15	294.073	4007.568	17.8
GRAND RIVER DAM AUTH	CHOUTEAU COAL FIRED COMPLE	Major	MAYES	15	294.073	4007.568	17.8
LONE STAR IND INC DBA BUZZI U	PRYOR CEMENT FACLTY	Major	MAYES	15	300.374	4016.140	4.0

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Company	Facility	Facility Category	County	UTM Zone	UTM Hzn	UTM Vrt	SO2 (lb/hr)
LONE STAR IND INC DBA BUZZI U	PRYOR CEMENT FACLTY	Major	MAYES	15	300.374	4016.140	4.0
LONE STAR IND INC DBA BUZZI U	PRYOR CEMENT FACLTY	Major	MAYES	15	300.374	4016.140	126.5
LONE STAR IND INC DBA BUZZI U	PRYOR CEMENT FACLTY	Major	MAYES	15	300.374	4016.140	113.5
LONE STAR IND INC DBA BUZZI U	PRYOR CEMENT FACLTY	Major	MAYES	15	300.374	4016.140	81.1
TERRA NITROGEN LTD PARTNERS	VERDIGRIS PLT	Major	ROGERS	15	255.451	4011.551	0.1
TERRA NITROGEN LTD PARTNERS	VERDIGRIS PLT	Major	ROGERS	15	255.451	4011.551	0.1
TERRA NITROGEN LTD PARTNERS	VERDIGRIS PLT	Major	ROGERS	15	255.451	4011.551	184.0
TERRA NITROGEN LTD PARTNERS	VERDIGRIS PLT	Major	ROGERS	15	255.451	4011.551	180.0
TERRA NITROGEN LTD PARTNERS	VERDIGRIS PLT	Major	ROGERS	15	255.451	4011.551	8.0
TERRA NITROGEN LTD PARTNERS	VERDIGRIS PLT	Major	ROGERS	15	255.451	4011.551	8.0
PUBLIC SVC CO OF OK	PSO NORTHEASTERN PWR STA	Major	ROGERS	15	257.854	4034.998	1849.0
PUBLIC SVC CO OF OK	PSO NORTHEASTERN PWR STA	Major	ROGERS	15	257.854	4034.998	3702.0
PUBLIC SVC CO OF OK	PSO NORTHEASTERN PWR STA	Major	ROGERS	15	257.854	4034.998	3702.0
PUBLIC SVC CO OF OK	PSO NORTHEASTERN PWR STA	Major	ROGERS	15	257.854	4034.998	56.4
PUBLIC SVC CO OF OK	PSO NORTHEASTERN PWR STA	Major	ROGERS	15	257.854	4034.998	56.4
LAFARGE BDLG MTL	TULSA ROGERS CNTY LINE	Major	ROGERS	15	246.856	4009.234	1470.8
LAFARGE BDLG MTL	TULSA ROGERS CNTY LINE	Major	ROGERS	15	246.856	4009.234	1446.0

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Company	Facility	Facility Category	County	UTM Zone	UTM Hzn	UTM Vrt	SO2 (lb/hr)
OG AND E	MUSKOGEE GNRTNG STA	Major	MUSKOGEE	15	292.335	3959.747	2653.3
OG AND E	MUSKOGEE GNRTNG STA	Major	MUSKOGEE	15	292.335	3959.747	6576.0
OG AND E	MUSKOGEE GNRTNG STA	Major	MUSKOGEE	15	292.335	3959.747	6576.0
OG AND E	MUSKOGEE GNRTNG STA	Major	MUSKOGEE	15	292.335	3959.747	6567.0
GEORGIA PACIFIC CONSUMER PR	MUSKOGEE MILL	Major	MUSKOGEE	15	291.840	3956.936	0.0
GEORGIA PACIFIC CONSUMER PR	MUSKOGEE MILL	Major	MUSKOGEE	15	291.840	3956.936	340.0
GEORGIA PACIFIC CONSUMER PR	MUSKOGEE MILL	Major	MUSKOGEE	15	291.840	3956.936	269.4
GEORGIA PACIFIC CONSUMER PR	MUSKOGEE MILL	Major	MUSKOGEE	15	291.840	3956.936	421.7
PUBLIC SVC CO OF OK	PSO TULSA POWER STA	Major	TULSA	15	230.783	4000.864	636.0
PUBLIC SVC CO OF OK	PSO TULSA POWER STA	Major	TULSA	15	230.783	4000.864	445.9
PUBLIC SVC CO OF OK	PSO TULSA POWER STA	Major	TULSA	15	230.783	4000.864	940.0
PUBLIC SVC CO OF OK	PSO RIVERSIDE JENKS PWR STA	Major	TULSA	15	233.446	3987.581	2105.0
PUBLIC SVC CO OF OK	PSO RIVERSIDE JENKS PWR STA	Major	TULSA	15	233.446	3987.581	2200.0
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	449.2
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	437.3
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	34.9
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	376.5
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	73.5
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	16.8
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	2.2
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	5.2
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	8.7
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	9.0
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	6.6
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	2.4
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	0.7
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	1.0

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Company	Facility	Facility Category	County	UTM Zone	UTM Hzn	UTM Vrt	SO2 (lb/hr)
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	1.2
SINCLAIR TULSA RFNRY CO	TULSA RFNRY 902 W 25TH ST	Major	TULSA	14	769.982	4001.607	24.6
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.778	4003.631	240.0
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.763	4003.585	0.1
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.763	4003.585	0.1
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.763	4003.585	0.1
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.225	4003.392	238.6
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.178	4003.547	170.0
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.178	4003.547	109.0
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.178	4003.699	29.4
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.203	4003.598	47.6
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.216	4003.605	69.4
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.216	4003.605	29.0
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.216	4003.605	35.8
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.216	4003.605	0.3
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.216	4003.605	88.0
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.216	4003.605	20.5
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.199	4003.686	0.2
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.187	4003.641	8.8
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.225	4003.392	20.6
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.200	4003.400	17.9
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.618	4003.476	195.0
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.749	4003.379	24.3
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.221	4003.588	0.3
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.351	4003.396	39.2
SUNOCO INC	SUNOCO INC TULSA RFNRY	Major	TULSA	14	768.452	4003.806	2.0
GAP ROOFING CO	SATURATED FELT PLT	Syn-Min	MAYES	15	295.125	4013.305	12.2

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Company	Facility	Facility Category	County	UTM Zone	UTM Hzn	UTM Vrt	SO2 (lb/hr)
ELKEM METALS CO LP	MIDWEST CARBIDE MID AMERICA	Syn-Min	MAYES	15	296.853	4016.320	19.8
Consumes Increment							

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Contact	Contact Phone	Stack ID	Stack Height (ft)	Stack Diameter (ft)	Stack Temp (F)	Stack FlowRate (ACFM)
JASON GOODWIN	(713) 570-4795	9751	100.0	10.0	380	315000
JASON GOODWIN	(713) 570-4795	9752	100.0	10.0	380	315000
JASON GOODWIN	(713) 570-4795	9753	100.0	10.0	380	315000
JASON GOODWIN	(713) 570-4795	9754	100.0	20.0	365	210000
JASON GOODWIN	(713) 570-4795	9755	100.0	10.0	370	210000
JASON GOODWIN	(713) 570-4795	9756	100.0	10.0	370	210000
JASON GOODWIN	(713) 570-4795	218	105.0	6.0	265	58623
JASON GOODWIN	(713) 570-4795	223	98.0	5.5	349	114492
Mark Bair	(918) 476-5825	10044	90.0	3.2	470	34837
Mark Bair	(918) 476-5825	10045	72.0	3.0	200	50000
Mark Bair	(918) 476-5825	30060	143.0	3.2	180	50000
Mark Bair	(918) 476-5825	30061	143.0	3.2	137	40525
Mark Bair	(918) 476-5825	10048	44.0	2.2	150	8200
Mark Bair	(918) 476-5825	10057	97.0	5.3	154	78125
Mark Bair	(918) 476-5825	30064	115.0	4.1	137	63300
Mark Bair	(918) 476-5825	33664	25.0	0.5	1275	188
Mark Bair	(918) 476-5825	10070	30.0	2.0	300	10409
Mark Bair	(918) 476-5825	10071	30.0	2.0	350	10409
Mark Bair	(918) 476-5825	33636	115.0	4.0	100	65369
Mark Bair	(918) 476-5825	30062	72.0	2.0	124	13702
Mark Bair	(918) 476-5825	30056	39.0	0.8	322	2800
Mark Bair	(918) 476-5825	30068	94.0	2.0	156	15006
DOUG VORE	(918) 824-1074	9257	505.0	20.0	306	1945654
DOUG VORE	(918) 824-1074	9258	505.0	18.2	300	1034193
DOUG VORE	(918) 824-1074	9259	261.0	5.0	510	77754
DOUG VORE	(918) 824-1074	9260	261.0	5.0	510	77754
JOSEPH E. COWEN	(918) 825-4123	9549	90.0	3.0	150	42000

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Contact	Contact Phone	Stack ID	Stack Height (ft)	Stack Diameter (ft)	Stack Temp (F)	Stack FlowRate (ACFM)
JOSEPH E. COWEN	(918) 825-4123	9550	100.0	4.5	150	51760
JOSEPH E. COWEN	(918) 825-4123	9560	150.0	13.5	550	150000
JOSEPH E. COWEN	(918) 825-4123	9561	150.0	13.5	550	150000
JOSEPH E. COWEN	(918) 825-4123	9562	102.0	7.0	550	186000
GARY COLLINS	(918) 266-9614	10277	60.0	4.5	340	28000
GARY COLLINS	(918) 266-9614	10278	75.0	4.8	300	28000
GARY COLLINS	(918) 266-9614	10284	120.0	13.0	385	215000
GARY COLLINS	(918) 266-9614	10291	120.0	13.0	330	215000
GARY COLLINS	(918) 266-9614	10298	76.0	4.2	150	9541
GARY COLLINS	(918) 266-9614	10299	76.0	4.2	150	9541
SHELBY BERRYHILL		8749	183.0	18.0	249	815626
SHELBY BERRYHILL		8750	600.0	27.0	250	1556205
SHELBY BERRYHILL		8751	600.0	27.0	250	1556205
SHELBY BERRYHILL		17535	150.0	19.0	200	799146
SHELBY BERRYHILL		18069	150.0	19.0	200	799146
PAM BENNETT	(918) 437-3902	8634	43.0	6.9	500	160000
PAM BENNETT	(918) 437-3902	8635	43.0	6.9	500	160000

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Contact	Contact Phone	Stack ID	Stack Height (ft)	Stack Diameter (ft)	Stack Temp (F)	Stack FlowRate (ACFM)
DAVID BRANECKY	(405) 553-3690	9943	176.0	15.4	300	339539
DAVID BRANECKY	(405) 553-3690	9944	350.0	24.0	264	1512047
DAVID BRANECKY	(405) 553-3690	9945	350.0	24.0	264	1512047
DAVID BRANECKY	(405) 553-3690	9946	500.0	21.5	264	1803588
KARL MEYERS	(918) 683-7671	9153	260.0	10.0	353	190277
KARL MEYERS	(918) 683-7671	9154	260.0	10.0	353	190277
KARL MEYERS	(918) 683-7671	9155	260.0	13.8	306	371904
KARL MEYERS	(918) 683-7671	9156	260.0	13.8	306	371904
DOUG LANEY		8760	184.0	9.0	340	168770
DOUG LANEY		8761	184.0	9.0	320	117640
DOUG LANEY		8762	184.0	9.0	340	168770
SCOTT QUAID	(918) 599-2882	8753	300.0	18.0	249	815626
SCOTT QUAID	(918) 599-2882	8754	300.0	18.0	249	815626
M P BELLINGER	(918) 584-5025	6150	71.0	7.0	350	147603
M P BELLINGER	(918) 584-5025	6151	71.0	7.0	350	147603
M P BELLINGER	(918) 584-5025	6152	200.0	2.0	340	3631
M P BELLINGER	(918) 584-5025	6153	191.0	5.0	571	88621
M P BELLINGER	(918) 584-5025	6154	240.0	5.0	1500	167500
M P BELLINGER	(918) 584-5025	6155	175.0	11.5	350	125876
M P BELLINGER	(918) 584-5025	6156	140.0	4.8	707	75598
M P BELLINGER	(918) 584-5025	6157	178.0	5.0	570	25379
M P BELLINGER	(918) 584-5025	6158	151.0	5.8	665	65988
M P BELLINGER	(918) 584-5025	6162	124.0	4.5	450	85141
M P BELLINGER	(918) 584-5025	6163	124.0	5.8	530	97158
M P BELLINGER	(918) 584-5025	6167	48.0	3.8	1050	29485
M P BELLINGER	(918) 584-5025	23133	45.0	3.5	567	10120
M P BELLINGER	(918) 584-5025	36195	100.0	3.7	101	8556

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Contact	Contact Phone	Stack ID	Stack Height (ft)	Stack Diameter (ft)	Stack Temp (F)	Stack FlowRate (ACFM)
M P BELLINGER	(918) 584-5025	36198	96.0	3.7	105	9765
M P BELLINGER	(918) 584-5025	36200	101.0	2.5	112	6450
ANDREW HAAR	(918) 594-6284	6291	110.0	10.5	256	83996
ANDREW HAAR	(918) 594-6284	6292	60.0	5.0	318	41998
ANDREW HAAR	(918) 594-6284	6293	60.0	5.0	333	41998
ANDREW HAAR	(918) 594-6284	6294	80.0	5.0	307	41998
ANDREW HAAR	(918) 594-6284	6295	135.0	7.4	484	103360
ANDREW HAAR	(918) 594-6284	6296	125.0	7.0	871	37608
ANDREW HAAR	(918) 594-6284	6297	125.0	7.0	848	22096
ANDREW HAAR	(918) 594-6284	6299	66.0	4.5	610	15356
ANDREW HAAR	(918) 594-6284	6300	77.0	2.0	482	21918
ANDREW HAAR	(918) 594-6284	6302	91.0	7.0	1167	55224
ANDREW HAAR	(918) 594-6284	6303	50.0	4.5	770	17460
ANDREW HAAR	(918) 594-6284	6304	50.0	5.0	389	14873
ANDREW HAAR	(918) 594-6284	6305	90.0	7.0	866	33860
ANDREW HAAR	(918) 594-6284	6306	85.0	5.0	924	18834
ANDREW HAAR	(918) 594-6284	6307	101.0	3.7	1117	15787
ANDREW HAAR	(918) 594-6284	6309	112.0	5.5	640	25809
ANDREW HAAR	(918) 594-6284	6310	54.0	3.0	603	4572
ANDREW HAAR	(918) 594-6284	6312	41.0	3.0	654	11195
ANDREW HAAR	(918) 594-6284	6314	90.0	3.0	548	5203
ANDREW HAAR	(918) 594-6284	6315	125.0	5.3	527	57894
ANDREW HAAR	(918) 594-6284	6316	100.0	5.3	688	10056
ANDREW HAAR	(918) 594-6284	6317	112.0	6.0	402	27303
ANDREW HAAR	(918) 594-6284	6318	62.0	3.5	451	17456
ANDREW HAAR	(918) 594-6284	13574	91.0	4.0	541	12604
BARBARA CHUPP	(918) 825-5200	20860	40.0	3.0	150	19000

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Contact	Contact Phone	Stack ID	Stack Height (ft)	Stack Diameter (ft)	Stack Temp (F)	Stack FlowRate (ACFM)
M. F. NILSEN	(918) 825-4033	9739	11.0	9.6	269	145000

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Stack Description	Distance from Origin (m)	Year
P&W #1 - Combustion Turbine - 27,400 hp	964	1990
P&W #2 - Combustion Turbine - 27,400 hp	964	1990
P&W #3 - Combustion Turbine - 27,400 hp	964	1990
G.E. Frame 6 - Combustion Turbine - 54,800 hp	964	1990
Boiler #8	964	1990
Boiler #9	964	1990
Boiler #10	964	2000
Boiler #11	964	2000
Keystone 12-M Boiler Source EPID#715	1218	1996
Feed Drying Source EPID#306	1218	1988
North Spray Dryer EPID#215	1218	1978
South Soy Isolate Spray Dryer EPID#8-2	1218	1989
Fiber Dryer Burner System 1, EPID#1344	1218	1989
Two Stage Feed DRYER EPID#3863	1218	1989
WEST PLANT SPRAY DRYER EPID#6536	1218	1998
Biogas flare	1218	
Basin Heat Boiler, 500 hp, EPID#1601	1218	1996
Basin Heat Boiler, 700 hp, #1670	1218	1996
Fibrim Spray Dryer	1218	1997
SOUTH SPRAY DRYER INDIRECT FIRED BURNER EPID#8-2	1218	1989
FIBER DRYER BURNER 2 EPID#1355	1218	1989
WEST PLANT SPRAY DRYER INDIRECT FIRED EPID#6532	1218	1998
Electric Power Generation Unit #1	5048	1978
Electric Power Generation Unit #2	5048	1982
Electric Power Generation (Auxilary #1)	5048	1978
Electric Power Generation (Auxilary #2)	5048	1978
Raw Mill #1	6811	<1974

NORIT Americas, Inc.
Pryor Facility
Full Impact Modeling, SO_2
PSDB Retrieval Data

Stack Description	Distance from Origin (m)	Year
Raw Mill #2	6811	<1974
Kiln #1 - Dry Process	6811	<1974
Kiln #2 - Dry Process	6811	<1974
Kiln #3 - Dry Process	6811	1980
Boiler B	39122	1974
Boiler C	39122	1975
Ammonia Plant #1 - Primary Reformer #1 and Aux. Boiler	39122	1974
Ammonia Plant #2 - Primary Reformer	39122	1975
Ammonia Plant #1 Startup Heater	39122	1974
Ammonia Plant #2 Startup Heater	39122	1975
Electric Power Generation Boiler (Gas) - Unit #2	43003	1970
Electric Power Generation Boiler (Coal) - Unit #3	43003	1974
Electric Power Generation Boiler (Coal) - Unit #4	43003	1974
Electric Power Generation Turbine (GAS) Unit 1A	43003	2000
Electric Power Generation Turbine (Gas) Unit 1B	43003	2000
Kiln #1	47821	1962
Kiln #2	47821	1962

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Pryor Facility
Full Impact Modeling, SO_2
PSDB Retrieval Data

Stack Description	Distance from Origin (m)	Year
Electric Power Generation Boiler - Unit #3	52893	1956
Electric Power Generation Boiler - Unit #4	52893	1970
Electric Power Generation Boiler - Unit #5	52893	1970
Electric Power Generation Boiler - Unit #6	52893	1978
Boiler - Unit B-1 - Zurn	55723	1975
Boiler - Unit B-2 - Babcock & Wilcox	55723	1975
Boiler - Unit B-3	55723	1978
Boiler - Unit B-4	55723	1981
BOILER NO. 2	64846	1956
BOILER NO. 3	64846	1957
BOILER NO. 4	64846	1958
BOILER NO.1	66033	1971
BOILER NO.2	66033	1971
Boilerhouse-East Stack-Boilers No's 1 & 2	69451	1950
Boilerhouse-West Stack-Boilers No's 3 & 4	69451	1950
Sulfur Recovery Unit (SRU)	69451	1972
FCCU (ESP)	69451	1950
Flares No 1 & No 2	69451	1950
Process Heaters-Crude Vacuum Charge	69451	1949
Hydrotreater (N Stack)	69451	2005
Hydrotreater (S Stack)	69451	1955
FCCU Chg & Reblr Htrs	69451	1949
Reformer No 2 - Splitter Reboiler	69451	1972
Reformer No 2 Intermediate Heater 1 & 2 Chrge Htr	69451	1972
Isomerization Unifiner Heater	69451	1955
Scanfiner Heater	69451	2004
charge heater	69451	2004

NORIT Americas, Inc.
Pryor Facility
Full Impact Modeling, SO_2
PSDB Retrieval Data

Stack Description	Distance from Origin (m)	Year
NHDS Reboiler Heater	69451	2006
Tail Gas Treater Stack	69451	2006
#5 BH - #3&4 Boiler ID 106	70286	1957
#5 BH - #7 Boiler ID 109	70286	1975
#5 BH - #8 Boiler ID 110	70286	1976
#5 BH - #9 Boiler ID 111	70286	1976
Atmosphere Tower Heater (H-1) ID 201	70286	1961
#1 Vac Tower Heater (H2) ID 202	70286	1961
#2 Vac Tower Heater (H3) ID 203	70286	1961
Unifier Charge Heater ID 206	70286	1957
Stripper Reboiler Heater ID 207	70286	1957
#2 Plt-1 Rx Chg Heater ID 209	70286	1957
#2 Plt DeC4 Heater ID 210	70286	1957
#2 Plt DeC5 Heater ID 211	70286	1957
#2 Plt-#2 Rx Chg Heater (PH5) ID 212	70286	1990
#2 Plt-#3 Rx Chg Heater (PH6) ID 213	70286	1957
#2 Plt-#4 Rx Chg Heater (PH6) ID 214	70286	1971
Coker Drum Charge Heater B-1 ID 225	70286	1992
B-30 Asphalt Mix Heater ID 238	70286	1956
B-40 Asphalt Mix Heater ID 240	70286	1962
Raffinate Mix Heater (H101) ID 242	70286	1963
Extract Mix Heater H-102 ID 243	70286	1963
Hydrotreater Charge Heater H201 ID 244	70286	1963
MEK - Wax Free Oil Heater ID 245	70286	1977
MEK Soft Wax Heater H-2 ID 246	70286	1960
Coker Preheater B-3 Unit ID 224	70286	1995
Steam Boiler	910	1990

NORIT Americas, Inc.
Pryor Facility
Full Impact Modeling, SO_2
PSDB Retrieval Data

Stack Description	Distance from Origin (m)	Year
Electric Arc Furnace	4376	1954

NORIT Americas, Inc.
Pryor Facility
Full Impact Modeling, SO_2
Arkansas PSDB Retrieval Data

Company	Facility	UTM Zone	UTM Hzn	UTM Vrt	SO2 PTE (TPY)	SO2 Actual (TPY)	SO2 PTE (lb/hr)	SO2 Actual (lb/hr)
SWEPCO	Flint Creec	15	363.08	4013.44	29915	8526.4	6829.908676	1946.666667

NORIT Americas, Inc.
Pryor Facility
Full Impact Modeling, SO_2
Arkansas PSDB Retrieval Data

Stack ID	Stack Height (ft)	Stack Diameter (ft)	Stack Temp (F)	Stack Description	Exit Velocity (fps)	Year
0001	540	20	275	Boiler	112	1975

NORIT Americas, Inc.
Pryor Facility
Full Impact Modeling, SO_2
Kansas PSDB Retrieval Data

County Code	Facility ID	Pollutant	Facility Name	Primary SIC Code	UTM Zone	UTM Vertical (KM)	UTM Horizontal (KM)	Estimated Emissions (Tons)	Emission Factor (Pounds per SCC Unit)
125	00079	SO2	COFFEYVILLE RESOURCES NITROGEN FERT.	2873	15	4,102.97	268.36	16.26	
125	00079	SO2	COFFEYVILLE RESOURCES NITROGEN FERT.	2873	15	4,102.97	268.36	13.95	
125	00079	SO2	COFFEYVILLE RESOURCES NITROGEN FERT.	2873	15	4,102.97	268.36	13.85	
125	00079	SO2	COFFEYVILLE RESOURCES NITROGEN FERT.	2873	15	4,102.97	268.36	11.61	
125	00079	SO2	COFFEYVILLE RESOURCES NITROGEN FERT.	2873	15	4,102.97	268.36	7.11	

NORIT Americas, Inc.
Pryor Facility
Full Impact Modeling, SO_2
Kansas PSDB Retrieval Data

Emissions Group Description	Process Number	Process Description	Stack Number	stack height(ft)	stack diameter(ft)	Stack Exit Velocity (feet per second)	stack gas temperature (°F)
EU-301 GASIFICATION UNIT	6.00	GASIFICATION UNIT FLARE	6.00	306.60	19.97	65.62	1,832.00
EU-301 GASIFICATION UNIT	9.00	GASIFICATION UNIT FLARE					
EU-301 GASIFICATION UNIT	11.00	GASIFICATION UNIT FLARE					
EU-301 GASIFICATION UNIT	7.00	GASIFICATION UNIT FLARE					
EU-301 GASIFICATION UNIT	5.00	GASIFICATION UNIT FLARE					

No other source in the radius had an annual PTE of 850 tons of SO2.

NORIT Americas, Inc.
Pryor Facility
Full Impact Modeling, SO_2
Kansas PSDB Retrieval Data

Potential to Emit (Tons per Year)	Max Hourly Emission Rate (Pounds per Hour)	Notes
169	5,678	This source has an annual PTE below 850 tons but we thought it prudent to include.

Igor Shnayder

From: Lance Horn [lance.horn@dnr.mo.gov]
Sent: Monday, January 28, 2008 1:31 PM
To: Igor Shnayder
Cc: Kyra Moore; Dawn Froning
Subject: RE: NAAQS Inventory collected for Sage Environmental (Pryor, Oklahoma Facility)

Mr. Shnayder,

Yes, there is only one source in the area to be included in your inventory. The Empire Electric facility at Asbury was the only one that fit your criteria and was required by our department.

Yes, the numbers provided for the Empire facility are correct according to information obtained from the company directly. These numbers represent the max PTE for the facility. This was part of the reason behind the delay in providing you the information you requested. Staff wanted to verify that these were the correct numbers prior to having you include them in your model run.

After further review, you are correct in regards to the gas exit velocity. I apologize for the error. Calculation of the flow rate, provided by the facility (630,000 cu ft/min), gives an exit velocity of 4746.36 ft/min. Metric conversion of this number gives us 24.112 meters/second. Please replace the 0.391 m/s with 24.112 m/s in the Exit Velocity column.

Please let me know if you have any more questions.

Thank you,

ance Horn
Missouri Department of Natural Resources
Air Pollution Control Program
Environmental Specialist
(573) 751-4817

"Igor Shnayder" <igor@sageenvironmental.com>

01/28/2008 12:02 PM

To "Lance Horn" <lance.horn@dnr.mo.gov>
cc "Ryan Atkinson" <ryan@sageenvironmental.com>, "Dale Fentress" <dfentress@norit-americas.com>, "Dmitriy Shnayder" <dmitriy@sageenvironmental.com>
Subject RE: NAAQS Inventory collected for Sage Environmental (Pryor, Oklahoma Facility)

Dear Lance:

Thank you for the provided information. Please confirm one more time the following information:

1. There is only one SO_2 source to be included in the modeling
2. The emission rate is 16,810 g/s (or 133,400 lbs/hr or 584,500 tpy). Please note that the 1999 actual annual SO_2 emissions for the source were 8,046 tpy.

The gas exit velocity is only 0.391 m/s (it looks a bit low for a boiler exhaust)

Please call me or reply to this e-mail. Thank you for your time and consideration regarding this matter.

Igor Shnayder, Senior Technical Specialist

3/5/2008

Sage Environmental Consulting, L.P.
"Friendly Service, No Surprises!"™
1100 Centennial Blvd, Suite 160
Richardson, Texas 75081
Office: 972.480.9800 Ext. 1309
Fax: 972.480.9865
Cell: 214.213.7877

-----Original Message-----
From: Lance Horn [mailto:lance.horn@dnr.mo.gov]
Sent: Monday, January 28, 2008 11:38 AM
To: Igor Shnayder
Cc: Kyra Moore; Dawn Froning
Subject: NAAQS Inventory collected for Sage Environmental (Pryor, Oklahoma Facility)

Mr. Shnayder,

I am attaching the source that the Missouri Department of Natural Resources Air Pollution Control Program modeling staff requires for your analysis. The increment inventory in still being pulled and will be sent to you upon completion.

Please note that the emission rate is in grams per second (g/s), the release parameters are in metric, and the UTM data is in Datum NAD83, zone 15.

Please let me know if you have any questions.

Thank you,

Lance Horn
Missouri Department of Natural Resources
Air Pollution Control Program
Environmental Specialist
(573) 751-4817

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Igor Shnayder

From: Stinson, Scot [STINSON@adeq.state.ar.us]
Sent: Friday, November 09, 2007 10:54 AM
To: Igor Shnayder
Subject: RE: PSDB Retrieval Request

Mr. Shnayder,

These two files contain all the current info about the stacks at the Flint Creek facility,

Scot Stinson

-----Original Message-----
From: Igor Shnayder [mailto:igor@sageenvironmental.com]
Sent: Friday, November 09, 2007 10:32 AM
To: Stinson, Scot
Cc: Dale Fentress; Dmitriy Shnayder
Subject: RE: PSDB Retrieval Request

Scott:

Thank you very much for your prompt response. Please also provide the modeling parameters for the Flint Creek sources emitting sulfur dioxide (stack height and diameter and gas temperature and exit velocity). If there are multiple sources, please provide the breakdown of the SO2 PTE and actual emissions per source.

Thank you for your time and consideration regarding this matter.

Sincerely,
Sage Environmental Consulting, L.P.

Igor Shnayder
Senior Technical Specialist

-----Original Message-----
From: Stinson, Scot [mailto:STINSON@adeq.state.ar.us]
Sent: Friday, November 09, 2007 10:15 AM
To: Igor Shnayder
Subject: RE: PSDB Retrieval Request

Mr Shnayder,

It appears that did receive their first permit in 1975, but there is no indication whether they were actually in operation during that year. As far as actual emissions go, there would be no record since emissions inventories were implemented in the 90's.

Scot Stinson
Ecologist II
ADEQ, Air Planning Division
501-682-0538

-----Original Message-----
From: Igor Shnayder [mailto:igor@sageenvironmental.com]
Sent: Friday, November 09, 2007 9:52 AM
To: Stinson, Scot
Cc: Dale Fentress; Dmitriy Shnayder
Subject: RE: PSDB Retrieval Request

Dear Scott,

Thank you very much for your review of the ADEQ database and providing the data. Would it be possible to verify whether the Flint Creek EGU existed in 1975 and, if so, find out the actual emissions for that time period?

Thank you for your time and consideration regarding this matter.

Sincerely,
Sage Environmental Consulting, L.P.

Igor Shnayder
Senior Technical Specialist

-----Original Message-----
From: Stinson, Scot [mailto:STINSON@adeq.state.ar.us]
Sent: Friday, November 09, 2007 9:40 AM
To: Igor Shnayder
Subject: FW: PSDB Retrieval Request

Mr. Shnayder,

As per your request, we have reviewed our facilities in the 100,000 meter radius of the NORIT Pryor Facility. Only one fits the criteria you specified. I have included a summary of the 2006 reported emissions and permit limits for the SWEPCO – Flint Creek EGU. I f you have further questions feel free to contact me.

Scot Stinson
Ecologist II
ADEQ, Air Planning Division
501-682-0538

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Igor Shnayder

From: Stinson, Scot [STINSON@adeq.state.ar.us]

Sent: Friday, November 09, 2007 1:45 PM

To: Igor Shnayder

Subject: RE: PSDB Retrieval Request

Mr. Shnayder,

I just noticed one of the numbers on the parameter report is wrong. It shows an exit velocity of zero (0.00). It should be 112 ft/sec.

Scot Stinson

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