

CO STARTING  
 CO TITLEONE 1991 PRATT & WHITTNEY AAQS 8/15/00  
 CO TITLETWO West Palm Beach/West Palm Beach Met Data, 1987-91  
 CO MODELOPT DFAULT CONC RURAL NOCMPL  
 CO AVERTIME 8 1  
 CO POLLUTID CO  
 CO DCAYCOEF .000000  
 CO RUNORNOT RUN  
 CO FINISHED

SO STARTING

\*\* Source Location Cards:  
 \*\* SRCID SRCTYP XS YS ZS  
 \*\* MODELING ORIGIN IS ROCKET ENGINE DISCHARGE LOCATION

\*\* Source Location Cards:  
 \*\* SRCID SRCTYP XS YS ZS  
 \*\* UTM (m) (m) (m)  
 \*\* SOURCE ID DESCRIPTION

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 \*\* ENGINE Engine Discharge  
 \*\* 1 Slave Engine  
 \*\* 16 Boiler BO-12-E6  
 \*\* 22 Boilers BO-1-MBH and BO-2-MBH  
 \*\* 40 Furnaces FU-3-MHT and FU-4-MHT  
 \*\* 45 Evaporator EV-1-MW  
 \*\* 59 Miscellaneous heaters  
 \*\* 66 Boiler, BO-14-E8  
 \*\* 68 Emergency Elect Gen Facility  
 \*\* 69 Jet Engine Test Stands (all)  
 \*\* Pratt & Whittney Facility Source Locations  
 SO LOCATION ENGINE POINT 0.0 0.0 0.0  
 SO LOCATION 01 POINT 585.2 658.4 0.0  
 SO LOCATION 16 POINT 475.5 -109.7 0.0  
 SO LOCATION 22 POINT 8168.6 -61.0 0.0  
 SO LOCATION 40 POINT 8065.0 -115.8 0.0  
 SO LOCATION 45 POINT 7839.5 -365.8 0.0  
 SO LOCATION 59 POINT 1859.3 128.0 0.0  
 SO LOCATION 68 POINT -164.6 704.1 0.0  
 SO LOCATION 69 POINT 1859.3 128.0 0.0

\*\* OTHER SOURCES MODEL ID  
 NAME #

-----  
 \*\* 0990185 SIKORSKY AIRCRAFT CORP. - JUPITER  
 \*\* Paint spray booth (PS-13-SIK) with drying oven SIK10  
 10  
 \*\* 0990234 SOLID WASTE AUTH OF PBC/NO CO RRF  
 \*\* 412.5MMBTU/HR RDF BOILER NO.1 (324,000 lb/hr STEAM) SWPBC1  
 1  
 \*\* 412.5MMBTU/HR RDF BOILER NO.2 (324,000 lb./hr. steam) SWPBC2  
 2  
 \*\* Landfill Gas Coll Sys class I SWPBC3  
 3  
 \*\* Landfill Gas Coll Sys class III SWPBC4  
 4  
 \*\* 0990349 SFWMD PUMP STATION #S-5A  
 \*\* Six 1600 hp diesel engines powering flood control pumps S5A1  
 1

** 0990019 OSCEOLA FARMS	
** BOILER #2 WITH SCRUBBERS AND 2 STACKS	OSBLR2
2	
** BOILER #3 WITH SCRUBBER	OSBLR3
3	
** BAGASSE BOILER #4 UNIT #5, 100000 LBS/HR STEAM MAX	OSBLR4
4	
** 165,000 LB/HR BAGASSE BOILER # 5 WITH 2 SCRUBBERS & 2 STACKS	OSBLR5
5	
** BOILER #6 WITH SCRUBBER	PSD OSBLR6
6	
** 0990331 OSCEOLA COGENERATION PLANT	
** 760 MMBTU/HR BIOMASS/OIL/COAL FIRED BOILER	OSCOG1
1	
** 760 MMBTU/HR COGENERATION BOILER NO. 2	OSCOG2
2	
** 0990333 FGT STATION NO. 21 (WPB)	
** COMPRESSOR #2101, 6500 BHP NATURAL GAS FIRED TURBINE	FGT1
1	
** COMPRESSOR #2102, 6500 BHP NATURAL GAS FIRED TURBINE	FGT2
2	
** 0990344 PARKWAY ASPHALT (RIVIERA)	
** Asphalt rotary drum dryer (400 TPH); counterflow	PARK1
1	
** 0850102 INDIANTOWN COGENERATION PLANT	
** Pulverized Coal Main Boiler	INDCG1
1	
** (2) Auxiliary Boilers	INDCG3
3	
** 0850002 CAULKINS INDIANTOWN CITRUS	
** PEEL DRYER #1 WASTE HEAT EVAPORATOR (54,000 LB/HR CAPACITY)	CAULK4
4	
** 30 T/HR CITRUS PEEL DRYER #2	CAULK5
5	
** 0990123 PHYSICAL DISTRIBUTION CENTER & OSF	
** 12.5 mmBTU/hr boiler #1 (Unit A) burning No.6 fuel oil	PHYD1
1	
** 12.5 mmBTU/hr boiler #2 (Unit B) burning No.6 fuel oil	PHYD2
2	
** 0990583 MAGNUM ENV. SERVICES, INC. - WPB	
** Soil thermal treatment facility	MAGN1
1	
** 0990087 WEST PALM PLANT	
** Double drum dryer (250 TPH) burning low sulfur residual oil	WPP4
4	
** 0990188 ANIMAL RESCUE LEAGUE	
** ANIMAL CREMATION INCINERATOR; CRAWFORD #C-1000S; 250 LB/HR	ARL3
3	
** ANIMAL CREMATION INCINERATOR; CRAWFORD #C-500P; 75 LB/HR	ARL4
4	
** 0990056 ST. MARY'S HOSPITAL, INC.	
** Two identical process steam boilers; natural gas fired	STMAR2
2	
** 0990325 ROYAL PALM MEMORIAL GARDENS, INC.	
** HUMAN CREMATION INCINERATOR, IEE CO. #IE 43-PPII (100 LB/HR)	RPMG1
1	
** 0990061 U.S. SUGAR CORP. BRYANT MILL	
** BOILERS #1,#2,#3 WITH SCRUBBERS	
USSBM123 1,2,3	
** BOILER #5 WITH TWO SCRUBBERS.	USSEBM5

5  
\*\* 0990042 RIVIERA POWER PLANT  
\*\* Fossil Fuel Steam Generator, Unit 3 -Phase II Acid Rain Unit RIVP3  
3  
\*\* Fossil Fuel Steam Generator, Unit 4 -Phase II Acid Rain Unit RIVP4  
4  
\*\* 0850001 FPL MARTIN POWER PLANT  
\*\* Units 1 & 2 MART12  
1,2  
\*\* Aux Blr PSD  
MARTAUX Aux  
\*\* Diesel Gens PSD  
MARTGEN Gen  
\*\* Units 3 & 4 PSD MART34  
3,4  
\*\* 0990016 ATLANTIC SUGAR MILL  
\*\* BOILER #1 WITH SCRUBBER ATLSM1  
1  
\*\* BOILER #2 WITH 1 JOY TURBULAIRE TYPE D-40 IMPINGEMNT SCRUBBE ATLSM2  
2  
\*\* BOILER #3 WITH 2 JOY TURBULAIRE IMPINGEMENT SCRUBBERS ATLSM3  
3  
\*\* BOILER # 4 ATLSM4  
4  
\*\* 253 MM BTU/HR BAGASSE BOILER #5 W/SUPP FUEL OIL #6 P ATLSM5  
5  
\*\* 0850015 AYCOCK FUNERAL HOME  
\*\* IND. EQUIP. & ENGR. MODEL IE43-PPII CREMATOR AYCK2  
2  
\*\* 0850006 MARTIN MEMORIAL HEALTH SYSTEMS  
\*\* CLEAVER BROOKS MODEL CB 150 HP BOILER - UNIT #1 MMHS1  
1  
\*\* CLEAVER BROOKS MODEL CB-150 HP STEAM BOILER #2 MMHS5  
5  
\*\* 0850108 OUTBOARD MARINE/RALPH EVINRUDE TEST CTR  
\*\* Engine Testing Cells (02), 2 Test tanks and 2 Cooling towers OUT1  
1  
\*\* 0990026 SUGAR CANE GROWERS CO-OP  
\*\* BOILERS #1 AND #2 WITH 2 SCRUBBERS AND 1 STACK SCGC12  
1,2  
\*\* BOILER #3 WITH SCRUBBER SCGC3  
3  
\*\* BOILER #4 WITH CYCLONES AND 3 SCRUBBERS WITH ONE STACK SCGC4  
4  
\*\* BOILER #5 WITH CYCLONES, TWO SCRUBBERS, AND ONE STACK SCGC5  
5  
\*\* 504 MMBTU/HR BOILER # 8 RESIDUE/BAGASSE/OIL P SCGC8  
8  
\*\* 0990045 T G SMITH PLANT  
\*\* 2000 KW DIESEL GENERATOR # 1 PEAKING UNIT TGSM01  
1  
\*\* 2000 KW DIESEL GENERATOR # 2 PEAKING UNIT TGSM02  
2  
\*\* 2000 KW DIESEL GENERATOR # 3 PEAKING UNIT TGSM03  
3  
\*\* 2000 KW DIESEL GENERATOR # 4 PEAKING UNIT TGSM04  
4  
\*\* 2000 KW DIESEL GENERATOR # 5 PEAKING UNIT TGSM05  
5  
\*\* GAS TURBINE # 1 TGSM06

6  
 \*\* 7.5 MW FOSSIL FUEL STEAM GENERATING UNIT I TGSM07  
 7  
 \*\* FOSSIL FUEL STEAM GENERATOR #3 (Phase II, Acid Rain Unit) TGSM09  
 9  
 \*\* FOSSIL FUEL STEAM GENERATOR #4 (Phase II, Acid Rain Unit) TGSM10  
 10  
 \*\* COMBINED CYCLE UNIT (GT-2/S-5) TGSM11  
 11  
 \*\* 0990568 LWG PLANT  
 \*\* 186 MW combined cycle gas turbine, GE Frame 7FA LWG1

1  
 \*\* 0990005 OKEELANTA CORP  
 \*\* 715 MMBTU/HR COGENERATION BOILER NOS. 1,2,3  
 OKCOGEN 1,2,3  
 \*\* 0510003 U.S. SUGAR CLEWISTON MILL AND REFINERY  
 \*\* BOILER #1 WITH SCRUBBER  
 USSCM01 1  
 \*\* BOILER #2 WITH SCRUBBER  
 USSCM02 2  
 \*\* BOILER #3 WITH SCRUBBER  
 USSCM03 3  
 \*\* BOILER #5 WITH SCRUBBER  
 USSCM04 4  
 \*\* Boiler #7  
 USSCM07 7  
 \*\* 0510015 SOUTHERN GARDENS CITRUS PROCESSING CORP.  
 \*\* Peel Dryer  
 SGARDDRY Dry  
 \*\* Boilers 1-3  
 SGARDBLR Blr

SO LOCATION	SIK10	POINT	0.0	0.0	0.0
SO LOCATION	SWPBC1	POINT	16990	-13740	0.0
SO LOCATION	SWPBC2	POINT	16990	-13740	0.0
SO LOCATION	SWPBC3	POINT	16990	-13740	0.0
SO LOCATION	SWPBC4	POINT	16990	-13740	0.0
SO LOCATION	S5A1	POINT	-4950	-23680	0.0
SO LOCATION	OSBLR2	POINT	-23300	-7000	0.0
SO LOCATION	OSBLR3	POINT	-23300	-7000	0.0
SO LOCATION	OSBLR4	POINT	-23300	-7000	0.0
SO LOCATION	OSBLR5	POINT	-23300	-7000	0.0
SO LOCATION	OSBLR6	POINT	-23300	-7000	0.0
SO LOCATION	OSCOG1	POINT	-23480	-7000	0.0
SO LOCATION	OSCOG2	POINT	-23480	-7000	0.0
SO LOCATION	FGT1	POINT	16860	-17930	0.0
SO LOCATION	FGT2	POINT	16860	-17930	0.0
SO LOCATION	PARK1	POINT	21000	-12900	0.0
SO LOCATION	INDCG1	POINT	-19850	15700	0.0
SO LOCATION	INDCG3	POINT	-19850	15700	0.0
SO LOCATION	CAULK4	POINT	-19520	16470	0.0
SO LOCATION	CAULK5	POINT	-19520	16470	0.0
SO LOCATION	PHYD1	POINT	22200	-13800	0.0
SO LOCATION	PHYD2	POINT	22200	-13800	0.0
SO LOCATION	MAGN1	POINT	12700	-23000	0.0
SO LOCATION	WPP4	POINT	12400	-23300	0.0
SO LOCATION	ARL3	POINT	21100	-19000	0.0
SO LOCATION	ARL4	POINT	21100	-19000	0.0
SO LOCATION	STMAR2	POINT	25500	-15300	0.0
SO LOCATION	RPMG1	POINT	25900	-14800	0.0

SO LOCATION	USSBM123	POINT	-29670	-5880	0.0
SO LOCATION	USSBM5	POINT	-29670	-5880	0.0
SO LOCATION	RIVP3	POINT	26750	-14370	0.0
SO LOCATION	RIVP4	POINT	26750	-14370	0.0
SO LOCATION	MART12	POINT	-24820	17650	0.0
SO LOCATION	MARTAUX	POINT	-24820	17650	0.0
SO LOCATION	MARTGEN	POINT	-24820	17650	0.0
SO LOCATION	MART34	POINT	-24820	17650	0.0
SO LOCATION	ATLSM1	POINT	-15130	-29790	0.0
SO LOCATION	ATLSM2	POINT	-15130	-29790	0.0
SO LOCATION	ATLSM3	POINT	-15130	-29790	0.0
SO LOCATION	ATLSM4	POINT	-15130	-29790	0.0
SO LOCATION	ATLSM5	POINT	-15130	-29790	0.0
SO LOCATION	AYCK2	POINT	6000	33400	0.0
SO LOCATION	MMHS1	POINT	6730	33670	0.0
SO LOCATION	MMHS5	POINT	6730	33670	0.0
SO LOCATION	OUT1	POINT	4980	34370	0.0
SO LOCATION	SCGC12	POINT	-32600	-21700	0.0
SO LOCATION	SCGC3	POINT	-32600	-21700	0.0
SO LOCATION	SCGC4	POINT	-32600	-21700	0.0
SO LOCATION	SCGC5	POINT	-32600	-21700	0.0
SO LOCATION	SCGC8	POINT	-32600	-21700	0.0
SO LOCATION	TGSM01	POINT	25300	-31300	0.0
SO LOCATION	TGSM02	POINT	25300	-31300	0.0
SO LOCATION	TGSM03	POINT	25300	-31300	0.0
SO LOCATION	TGSM04	POINT	25300	-31300	0.0
SO LOCATION	TGSM05	POINT	25300	-31300	0.0
SO LOCATION	TGSM06	POINT	25300	-31300	0.0
SO LOCATION	TGSM07	POINT	25300	-31300	0.0
SO LOCATION	TGSM09	POINT	25300	-31300	0.0
SO LOCATION	TGSM10	POINT	25300	-31300	0.0
SO LOCATION	TGSM11	POINT	25300	-31300	0.0
SO LOCATION	LWG1	POINT	25300	-31300	0.0
SO LOCATION	OKCOGEN	POINT	-43410	-34990	0.0
SO LOCATION	USSCM01	POINT	-61400	-18120	0.0
SO LOCATION	USSCM02	POINT	-61400	-18120	0.0
SO LOCATION	USSCM03	POINT	-61400	-18120	0.0
SO LOCATION	USSCM04	POINT	-61400	-18120	0.0
SO LOCATION	USSCM07	POINT	-61400	-18120	0.0
SO LOCATION	SGARDDRY	POINT	-80000	-17400	0.0
SO LOCATION	SGARDBLR	POINT	-80000	-17400	0.0

\*\* Source Parameter Cards:

** POINT:	SRCID	QS (g/s)	HS (m)	TS (K)	VS (m/s)	DS (m)
** Pratt & Whittney Sources						
SO SRCPARAM	ENGINE	21000.	21.3	383.2	12.20	18.3
SO SRCPARAM	01	1.633	15.24	810.9	143.7	0.91
SO SRCPARAM	16	0.433	4.57	533.2	6.9	0.76
SO SRCPARAM	22	1.111	20.12	672.0	10.2	2.32
SO SRCPARAM	40	0.124	14.94	298.2	0.04	1.22
SO SRCPARAM	45	2.005	3.66	298.2	2.6	0.15
SO SRCPARAM	59	0.638	6.10	533.2	4.9	0.46
SO SRCPARAM	68	0.226	3.66	922.0	151.4	0.24
SO SRCPARAM	69	5.977	5.49	422.0	0.1	3.66

\*\* Other Sources

** 0990185 SIKORSKY AIRCRAFT CORP. - JUPITER						
SO SRCPARAM	SIK10	0.01	11.89	302.6	5.9	1.83

**	0990234	SOLID WASTE AUTH OF PBC/NO CO RRF						
SO	SRCPARAM	SWPBC1	17.80	76.20	505.4	24.7	2.04	
SO	SRCPARAM	SWPBC2	17.80	76.20	505.4	24.7	2.04	
SO	SRCPARAM	SWPBC3	1.96	7.01	1033.2	24.4	0.21	
SO	SRCPARAM	SWPBC4	1.96	7.01	1033.2	46.6	0.15	
**	0990349	SFWMD PUMP STATION #S-5A						
SO	SRCPARAM	S5A1	8.37	4.88	685.9	5.3	0.99	
**	0850129	AMERICAN POWER TECH/INDIANTOWN						
SO	SRCPARAM	OSBLR2	317.52	27.43	338.7	18.6	1.52	
SO	SRCPARAM	OSBLR3	128.77	27.43	344.3	14.3	1.92	
SO	SRCPARAM	OSBLR4	317.52	27.43	344.3	16.5	1.83	
SO	SRCPARAM	OSBLR5	374.22	27.43	344.3	17.9	1.52	
SO	SRCPARAM	OSBLR6	310.40	27.43	338.7	18.3	1.92	
**	0990331	OSCEOLA COGENERATION PLANT						
SO	SRCPARAM	OSCOG1	16.37	60.96	419.3	15.9	3.05	
SO	SRCPARAM	OSCOG2	16.37	60.96	419.3	15.9	3.05	
**	0990333	FGT STATION NO. 21 (WPB)						
SO	SRCPARAM	FGT1	0.65	15.24	763.7	56.4	1.01	
SO	SRCPARAM	FGT2	0.65	15.24	763.7	56.4	1.01	
**	0990344	PARKWAY ASPHALT (RIVIERA)						
SO	SRCPARAM	PARK1	0.32	12.80	422.0	18.5	1.42	
**	0850102	INDIANTOWN COGENERATION PLANT						
SO	SRCPARAM	INDCG1	37.60	150.88	333.2	28.4	4.88	
SO	SRCPARAM	INDCG3	0.55	64.01	449.8	26.7	1.52	
**	0850002	CAULKINS INDIANTOWN CITRUS						
SO	SRCPARAM	CAULK4	0.16	28.65	343.2	11.6	0.98	
SO	SRCPARAM	CAULK5	0.05	32.92	255.4	0.0	1.52	
**	0990123	PHYSICAL DISTRIBUTION CENTER & OSF						
SO	SRCPARAM	PHYD1	0.05	9.14	491.5	10.1	0.52	
SO	SRCPARAM	PHYD2	0.05	9.14	491.5	10.1	0.52	
**	0990583	MAGNUM ENV. SERVICES, INC. - WPB						
SO	SRCPARAM	MAGN1	0.50	9.75	1144.3	31.6	0.98	
**	0990087	WEST PALM PLANT						
SO	SRCPARAM	WPP4	0.27	10.97	394.3	41.1	1.01	
**	0990188	ANIMAL RESCUE LEAGUE						
SO	SRCPARAM	ARL3	0.01	6.10	733.2	8.8	0.52	
SO	SRCPARAM	ARL4	0.004	6.10	788.7	3.4	0.52	
**	0990056	ST. MARY'S HOSPITAL, INC.						
SO	SRCPARAM	STMAR2	0.03	24.38	505.4	0.1	1.22	
**	0990325	ROYAL PALM MEMORIAL GARDENS, INC.						
SO	SRCPARAM	RPMG1	0.03	6.10	865.9	4.9	0.55	
**	0990061	U.S. SUGAR CORP. BRYANT MILL						
SO	SRCPARAM	USSBM123	1309.77	19.81	338.7	36.4	1.65	
SO	SRCPARAM	USSBM5	760.91	45.72	338.7	18.0	2.90	
**	0990042	RIVIERA POWER PLANT						
SO	SRCPARAM	RIVP3	13.18	90.83	401.5	26.9	4.88	
SO	SRCPARAM	RIVP4	13.18	90.83	401.5	26.6	4.88	
**	0850001	FPL MARTIN POWER PLANT						
SO	SRCPARAM	MART12	38.92	152.1	420.9	21.03	7.99	
SO	SRCPARAM	MARTAUX	0.0	18.3	535.4	15.24	1.10	
SO	SRCPARAM	MARTGEN	0.0	7.6	785.9	39.62	0.30	
SO	SRCPARAM	MART34	26.66	64.9	410.9	18.90	6.10	
**	0990016	ATLANTIC SUGAR MILL						
SO	SRCPARAM	ATLSM1	242.68	27.43	346.0	18.0	1.83	
SO	SRCPARAM	ATLSM2	242.68	27.43	350.0	23.4	1.83	
SO	SRCPARAM	ATLSM3	294.84	27.43	350.0	21.6	1.83	
SO	SRCPARAM	ATLSM4	311.85	27.43	344.0	25.2	1.83	
SO	SRCPARAM	ATLSM5	209.11	27.43	339.0	19.2	1.68	
**	0850015	AYCOCK FUNERAL HOME						
SO	SRCPARAM	AYCK2	0.03	7.32	865.9	5.5	0.52	