

APPENDIX G - EPD BACT Comparison Spreadsheet for the Auxiliary Boiler S45

Auxiliary Boiler

RBLCD		State	Plant Name	City/County	General Project Description	BACT Limits (lb/MMBtu)										BACT Limits (lb/MMBtu)				
						NOx	CO	VOC	PM10	SO2	H2SO4	opacity	HCL	lead	mercury	fluorides	Control Technologies	Auxiliary		
GA-0114	GA	Longleaf	TEMPLE INLAND, INC.	FLOYD	175 mmBtu/hr	0.1	0.04	0.02	0.5	0.01-PM FLO.05-PM total as BACT, 0.022- total PM and ultra low sulfur fuel (15 ppm sulfur by wt) as MACT	0.0005	10	0.0009				LNB and FGR, Low Ash fuel for PM, Low sulfur fuel for SO2 and H2SO4, combustion control for VOC and CO	Yes		
AR-0074	AR		PLUM POINT ENERGY	MISSISSIPPI	AUXILIARY BOILER, 175.00 MMBTU/H, #2 FUEL OIL	0.1	0.036	0.0015	0.0071	0.051	0.0008						LNB and FGR, Low Ash fuel for PM, Low sulfur (<0.05) fuel for SO2 and H2SO4, combustion control for VOC and CO	Yes		
AR-0079	AR		PLUM POINT ENERGY	MISSISSIPPI	AUXILIARY BOILER, 265.00 MMBTU/H, #2 FUEL OIL	0.1	0.036	0.005	0.023	0.0016	0.0005						LNB and FGR, Low Ash fuel for PM, Low sulfur (<0.05) fuel for SO2 and H2SO4, combustion control for VOC and CO	Yes		
MT-0022	MT		BULL MOUNTAIN NO. 1, LLC - ROUNDUP POWER	MISSISSIPPI	BOILER, AUXILIARY, # 1 & #2, 117.00 MMBTU/H, Fuel is low sulfur No. 2 fuel oil. Requested hourly limitations on the auxiliary boilers - 3300 HV combined	0.09	0.035			0.055							LNB and limit on hrs, low sulfur(0.05) and limit on hrs.	Yes		
VA-0270	VA		COMMONWEALTH UNIVERSITY	RICHMOND	150.00 MMBTU, #2 FUEL OIL	0.2	0.105	0.014	0.022-PM, 0.011-PM10	0.53							LNB and FGR, good combustion, low sulfur fuel	No		
VA-0278	VA		COMMONWEALTH UNIVERSITY	RICHMOND	150.00 MMBTU, #2 FUEL OIL	0.2	0.1	0.014	0.02-PM, 0.01-PM10	0.5							LNB and FGR, good combustion, low sulfur fuel(<0.5)	No		
FL-0081	FL		TAMPA ELECTRIC COMPANY	POLK	120.00 MMBTU/H, POWER PLANT AUX BOILER, (GCC UNIT, MODIFIED OPERATING HOURS = 3000 HV, sulfur fuel, fuel oil, State SIP rule requires a BACT for SO2 and PM emissions regardless of increase. The efficient combustion of clean fuels will minimize emissions of CO, PM10, SO2, and VOC. The installation of low NOx burners with flue gas recirculation will reduce NOx emissions	0.1	0.6	0.1				20					LNB, low sulfur fuel(<0.05)	Yes		
FL-0251	FL		NEW HOPE POWER PARTNERSHIP	PALM BEACH	183.00 MMBTU/H, BOILER LIMITED TO AN ANNUAL CAPACITY FACTOR FOR #2 FUEL OIL OF 10% OR LESS. COMBUSTION OF NO.2 FUEL OIL SHALL NOT EXCEED 862,493 AND 3,182,462 GALLONS PER YEAR.	0.12		0.024	BACT is fuel specified, emission factor used 0.03	BACT is fuel specification								LNB and FGR, good combustion, low sulfur fuel(<0.05)	No	
TN-0089	TN		PROCTOR & GAMBLE MANUFACTURING COMPANY	MADISON	225.00 MMBTU/H, BOILER LIMITED TO AN ANNUAL CAPACITY FACTOR FOR #2 FUEL OIL OF 10% OR LESS			0.024				20					sulfur 0.2 %	No		
TN-0099	TN		PROCTOR & GAMBLE MANUFACTURING COMPANY	MADISON	225.00 MMBTU/H, BOILER LIMITED TO AN ANNUAL CAPACITY FACTOR FOR #2 FUEL OIL OF 10% OR LESS			0.024				20					sulfur 0.2 %	No		
TN-0150	TN		PENN SPECIALTY CHEMICALS	SHELBY	250.00 MMBTU/H, NO. 2 FUEL OIL					0.1							RECIRCULATION AND SCR SYSTEM, GOOD COMB PRACTICES	No		
PA-0193	PA		WEST POINT PLANT	MONTGOMERY	249.00 MMBTU/H, NO. 2 FUEL OIL	0.1	0.38										LAER for NOx	No		
AR-0028	AR		PINE BLUFF ENERGY CENTER	JEFFERSON	346.00 MMBTU/H, NO. 2 FUEL OIL	0.14	0.12	0.005	0.03	0.62							LNB and FGR, good combustion, low sulfur fuel(<0.05)	No		
NJ-0042	NJ		ROCHE VITAMINS, INC	WARREN	270.90 MMBTU/H, NO. 2 FUEL OIL	0.48	0.036	0.001	0.0498	0.0516							fuel oil with a sulfur content of no more than 0.0015% by weight.	No		
	NM		Desert Rock		Fuel-oil fired auxiliary boiler, 86.4 MMbtu/hr	0.1	0.036	0.00243	0.0235-PM10 total, 0.007-PM10 FI, 0.014 PM FI, 0.016-Total	0.00162	0.000035						LNB and FGR, good combustion, low sulfur fuel(<0.05)	Yes		
	Missouri		Associate Electric Cooperative's Norborne		374.9 MMBTU/H, NO. 2 FUEL OIL, 219.01	0.1	0.08	0.005	0.018-PM FI, 0.024-PM FI total	0.0524	0.004						LNB and FGR, good combustion, low sulfur fuel(<0.05)	Yes		
	Nevada		Tourop		86.4 MMbtu/hr, No. 2 fuel oil, 122.50 MMbtu/hr, fuel oil for Aux Boiler, total 489000 MMbtu	0.1	0.036	0.003	PM10 total	0.02	0.0004	20					LNB and FGR, Ultra low sulfur fuel	Yes		
	Wisconsin		Elm Road		117 mmBtu/hr, AP-42 Emission factors are used for limits	0.09	0.075	0.005	0.05	0.032	0.00064				0.000009	0.000003	0.003 % sulfur	Yes		
	Montana		Roundup Power		219.4 mmBtu/hr, NO. 2 fuel oil, 876												good combustion practices, 0.05 % sulfur	Yes		
	Missouri		KCP, Iatan		300 mmBtu/hr, No. 2 fuel oil, 500 hr/12	0.1	0.04	0.005	0.024-PM10, 0.03-PM	0.052							LNB and FGR, good combustion, low sulfur fuel(<0.0015)	Yes		
	Kentucky		Thoroughbred		300 mmBtu/hr, Ultra Low Sulfur distillate fuel oil	0.12	0.06	0.03	0.06-3 hr	0.05		20					good combustion practices, 0.05 % sulfur	Yes		
	Nevada		U.S. Power - White Pine		150 mmBtu/hr, Ultra Low Sulfur distillate fuel oil	0.1	0.04	0.003	0.05-Total PM, 0.05-CP	0.0016	0.00006	20					LNB and FGR, good combustion, low sulfur fuel(<0.0015)	Yes		