Table 1: Utilities NOX Control Costs Summary

Scenario #1: Estimated costs to achieve NOX emission rate equal to 0.25 lb/mmbtu. Baseline emission rates and heat inputs----U.S. EPA's 2007 Budget inventory: SCR eff.---based on achievable emission rates in USEPA 's ACT document for Utility Boilers (70% to 80%) : SNCR eff.---- based on achievable emission rates in USEPA 's ACT document for Utility Boilers (not to exceed 60%): Methodology----- USEPA 's ACT document for Utility Boilers

Utility	AEP	Cinergy	Hoosier Energy	IPL	IKECK	NIPSCO	Richmond Power & Light	SIGECO	Southern Company	Totals
Baseline emissions (tons)	24163	37682	10975	14982	20253	24475	702	9426	2517	145175
Emissions reductions needed (tons)	8502	16239	5024	4461	14225	13744	286	4403	1260	68144
Emission reductions achieved (tons)	9999	16284	5517	4656	16202	13826	250	4567	1333	72634
Control strategy:	SCR on units MB2 &U4	SCR on Gibson units 1,2,4,5	SNCR on Merom units 1SG1, 2SG1	SCR on Petersburg unit2, Stout unit 70; SNCR on Petersburg unit 1 , Stout unit 50	SCR on all units	SCR on Michigan City 12, Schahfer units 14 &18, Bailly 8: SNCR on Bailly unit 7	SNCR on unit 2	SCR on Culley unit 3; SNCR on Warrick unit 4, Brown unit 2	SCR on unit 4	
SCR	2	4		2	6	4		1	1	20
SNCR			2	2		1	1	2		8
Total capital cost (million$)	118.25	205.09	10.99	67.75	110.1	135.94	1.08	33.03	33.62	715.85
Total ozone season cost (million $)	22.66	38.106	4.6	12.13	18.72	24.32	0.34	7.48	5.79	134.146
Cost effectiveness ($/ton)	2266	2340	835	2606	1155	1759	1382	1638	4342	1847

Scenario #2: Estimated costs to achieve NOX emission rate equal to 0.25 lb/mmbtu. Baseline emission rates and heat inputs----U.S. EPA's 2007 Budget inventory: SCR eff.---(80%) : SNCR eff.---- (30%): SCR & SNCR costs based on input from utilities and published data.

Utility	AEP	Cinergy	Hoosier Energy	IPL	IKECK	NIPSCO	Richmond Power & Light	SIGECO	Southern Company	Totals
Baseline emissions (tons)	24163	37682	10975	14982	20253	24475	702	9426	2517	145175
Emissions reductions needed (tons)	8502	16239	5024	4461	14225	13744	286	4403	1260	68144
Emission reductions achieved (tons)	11219	16371	5119	5846	16202	13989	333	4774	1403	75256
Control strategy:	SCR on U4, MB2	SCR on Gibson units 1,2,4,5	SCR on Merom 2SG1; SNCR on Merom 1SG1, Ratts 1SG1, 2SG1	SCR on Petersburg Units 2&3	SCR on all units	SCR on Bailly 7,8; Michigan City 12; Schahfer 14: SNCR on Schahfer 17	SCR on unit 2	SCR on Warrick 67054, Culley 10122: SNCR on Brown 61371, 61372, Culley 10123	SCR on unit 4	
SCR	2	4	1	2	6	4	1	2	1	23
SNCR			3			1		3		7
Total capital cost (million$)	184.00	239.24	50.69	105.81	110.10	142.79	8.20	52.67	39.29	932.79
Total ozone season cost (million $)	40.34	41.32	9.812	17.13	18.72	21.98	1.25	9.79	5.7	166.042
Cost effectiveness ($/ton)	3596	2524	1917	2930	1155	1571	3754	2051	4063	2206

Table 1: Utilities NOX Control Costs Summary

Scenario #3: Estimated costs to achieve NOX emission rate equal to 0.25 lb/mmbtu. Baseline emission rates and heat inputs-----utilities data: SCR eff.---(80%) : SNCR eff.---- (30%): SCR & SNCR costs based on input from utilities and published data.

Utility	AEP	Cinergy	Hoosier Energy	IPL	IKECK	NIPSCO	Richmond Power & Light	SIGECO	Southern Company	Totals
Baseline emissions (tons)	28731	40198	9508	18221	20253	22903	754	11172	4679	156419
Emissions reductions needed (tons)	15081	18336	3808	7700	14225	12734	350	6114	2990	81338
Emission reductions achieved (tons)	15251	19382	4058	10088	16202	13341	382	6597	3122	88423
Control strategy:	SCR on U4, MB2, U3	SCR on Gibson units 1,2,3,4,5	Conventional SCR on Merom Unit 2SG1: Combustion modification and SNCR on Merom Unit 1SG1: Combustion modification on Ratts units 1SG1 and 2SG1	SCR on Petersburg units 2,3,4	SCR on all units	SCR on Bailly 7,8; Michigan City 12; Schahfer 14: SNCR on Schahfer 17,18	SCR on unit 2	SCR on Warrick 67054, Culley 10122: SNCR on Brown 61371, 61372, Culley 10123	SCR on unit 4: SNCR on Unit 3	
SCR	3	5	1	3	6	4	1	2	1	26
SNCR			1			2		3	1	7
Total capital cost (million$)	206.00	302.54	47.43	163.67	110.10	143.99	8.20	52.67	41.58	1076.18
Total ozone season cost (million $)	44.14	51.98	7.57	26.33	18.72	22.36	1.26	9.83	6.86	189.05
Cost effectiveness ($/ton)	2894	2682	1867	2610	1155	1698	3298	1490	2197	2138

Scenario #4: Estimated costs to achieve NOX emission rate equal to 0.25 lb/mmbtu. Baseline emission rates and heat inputs-------utilities data: SCR eff.---(80%) : SNCR eff.---- (30%): SCR & SNCR costs based on input from utilities and published data. 10% planning margin.

Utility	AEP	Cinergy	Hoosier Energy	IPL	IKECK	NIPSCO	Richmond Power & Light	SIGECO	Southern company	Totals
Baseline emissions (tons)	28731	40198	9508	18221	20253	22903	754	11172	4679	156419
Emissions reductions needed (tons)	16589	20169	4189	8470	15,647	14007	385	6725	3289	89470
Emission reductions achieved (tons)	16738	20199	4277	10088	16202	14112	465	6789	3744	92614
Control strategy:	SCR on U1, U4, MB2, U3: SNCR U2	Optimization/tuning/SCR on Gibson 1,2,3,4,5: SNCR/optimization /tuning on Galaghar 1,2: Wabash River 5	Hi-perf SCR on Merom unit 2SG1: Combustion modification on Merom unit 1SG1: Combustion modification and SNCR on Ratts units 1SG1, 2SG1	SCR on Petersburg units 2,3,4	SCR on all units	SCR on Bailly 7,8; Michigan City 12; Schahfer 14,18: SNCR on Mitchell 6,11	SCR on unit 2: SNCR on unit 1	SCR on Warrick 67054, Culley 10123, Brown 61371	SCR on Units 3 &4	
SCR	4	5	1	3	6	5	1	3	2	30
SNCR	1	3	2			2	1	0		9
Total capital cost (million$)	223.32	309.56	48.74	163.67	121.11	168.1	8.73	84.35	60.78	1188.36
Total ozone season cost (million $)	48.02	54.04	7.55	26.33	20.59	25.86	1.413	13.34	9.42	206.563
Cost effectiveness ($/ton)	2869	2675	1767	2610	1270	1832	3039	1965	2516	2230

Note: Indiana Municipal Power Agency's units are not expected to require additional controls to meet the proposed emission limit, therefore, this utility is not included in these cost estimates.