

APPENDIX C

INDIANA BART-ELIGIBLE ELECTRIC GENERATING UNITS COVERED BY CAIR

(from the Indiana Regional Haze State Implementation Plan dated March 11, 2011)

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Indiana BART-eligible Electric Generating Units covered by CAIR

(from the Indiana Regional Haze State Implementation Plan dated March 11, 2011)

INDIANA COAL-FIRED UNITS					EPA IPM 3.0 2006 runs				LADCO Round 5 Runs	
<u>BART-eligible Units</u>										
<u>*MANEVU Ask</u>			SO ₂	NO _x						
FACILITY_ NAME	UNIT ID	Capacity MWatts	2009 + Projected SO ₂ CONTROL	2009 + Projected NO _x CONTROL	IPM Existing	IPM 2010 Retrofit	IPM 2015 Retrofit	IPM 2020 Retrofit	LADCO 2012 Retrofit	LADCO 2018 Retrofit
A B Brown Generating Station	1	250	Dual Alkali FGD	Selective Catalytic Reduction	SCR+FGD					
A B Brown Generating Station	2	250	Dual Alkali FGD	Selective Catalytic Reduction	SCR+FGD					
Alcoa Allowance Management Inc	1	144	Wet Limestone FGD (2008)	Low NO _x Burner Technology w/ Overfire Air	LNB w/SOFA					
Alcoa Allowance Management Inc	2	144	Wet Limestone FGD (2008)	Low NO _x Burner Technology w/ Overfire Air	LNB w/SOFA					
Alcoa Allowance Management Inc	3	144	Wet Limestone FGD (2008)	Low NO _x Burner Technology w/ Overfire Air	LNB w/SOFA					
Alcoa Allowance Management Inc	4	300	Wet Limestone FGD (2008)	Low NO _x Burner Selective Catalytic Reduction	SCR		FGD	FGD	FGD	FGD
Bailly Generating Station	7	160	Wet Limestone	Overfire Air / Selective Catalytic Reduction (2008)	SCR+FGD					
Bailly Generating Station	8	320	Wet Limestone	Overfire Air / Selective Catalytic Reduction	SCR+FGD					
Cayuga*	1	500	Wet Limestone (2008 - 95%)	Low NO _x Burner Technology w/ Separated OFA	FGD+LNB w/SOFA		SCR	SCR	SCR	SCR
Cayuga*	2	495	Wet Limestone (2008 - 95%)	Low NO _x Burner Technology w/ Separated OFA	FGD+LNB w/SOFA		SCR	SCR	SCR	SCR
Clifty Creek*	1	217	(FGD Scheduled possibly 2013)	Overfire Air Selective Catalytic Reduction	FGD+SCR					
Clifty Creek*	2	217	(FGD Scheduled possibly 2013)	Overfire Air Selective Catalytic Reduction	FGD+SCR					
Clifty Creek*	3	217	(FGD Scheduled possibly 2013)	Overfire Air Selective Catalytic Reduction	FGD+SCR					

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<u>BART-eligible Units</u>										
<u>*MANEVU Ask</u>			SO ₂	NO _x						
FACILITY_ NAME	UNIT ID	Capacity MWatts	2009 + Projected SO ₂ _ CONTROL	2009 + Projected NO _x _ CONTROL	IPM Existing	IPM 2010 Retrofit	IPM 2015 Retrofit	IPM 2020 Retrofit	LADCO 2012 Retrofit	LADCO 2018 Retrofit
Clifty Creek*	4	217	(FGD Scheduled possibly 2013)	Overfire Air Selective Catalytic Reduction	FGD+SCR					
Clifty Creek*	5	217	(FGD Scheduled possibly 2013)	Overfire Air Selective Catalytic Reduction	FGD+SCR					
Clifty Creek*	6	217	(FGD Scheduled possibly 2013)	Overfire Air	FGD	SCR	SCR	SCR	SCR	SCR
Dean H Mitchell Generating Station	11	125	Shut Down	Shut Down	LNB					
Dean H Mitchell Generating Station	4	125	Shut Down	Shut Down	Comb. Optimization			SCR		SCR
Dean H Mitchell Generating Station	5	125	Shut Down	Shut Down	Comb. Optimization			SCR		SCR
Dean H Mitchell Generating Station	6	110	Shut Down	Shut Down	LNB			SCR		SCR
Edwardsport	7-1	40	Unit will retire in 2012, IGCC will replace all the units in 2012	Unit will retire in 2012, IGCC will replace all the units in 2012		Retire	Retire	Retire	Retire	Retire
Edwardsport	7-2	40	Unit will retire in 2012, IGCC will replace all the units in 2012	Unit will retire in 2012, IGCC will replace all the units in 2012		Retire	Retire	Retire	Retire	Retire
Edwardsport	8-1	40	Unit will retire in 2012, IGCC will replace all the units in 2012	Unit will retire in 2012, IGCC will replace all the units in 2012		Retire	Retire	Retire	Retire	Retire
F B Culley Generating Station	2	90	Wet Limestone	Low NO _x Burner Technology (Dry Bottom only)	FGD+LNB			SNCR		SNCR
F B Culley Generating Station	3	270	Wet Limestone	Low NO _x Burner Technology (Dry Bottom only) Selective Catalytic Reduction	FGD+SCR					
Frank E Ratts	1SG1	122	U.S. EPA settlement, plant-wide from 2009 levels 42% reduction - 2012, 58% - 2014	Low NO _x Burner Technology (Dry Bottom only) OFA-2008	LNB			SCR		SCR

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FACILITY_NAME	UNIT ID	Capacity MWatts	2009 + Projected SO ₂ CONTROL	2009 + Projected NO _x CONTROL	IPM Existing	IPM 2010 Retrofit	IPM 2015 Retrofit	IPM 2020 Retrofit	LADCO 2012 Retrofit	LADCO 2018 Retrofit
IPL Eagle Valley Generating Station	4	56		Low NOx Burner Technology w/ Separated OFA	LNB w/SOFA					
IPL Eagle Valley Generating Station	5	62		Low NOx Burner Technology w/ Separated OFA	LNB w/SOFA					
IPL Eagle Valley Generating Station	6	99		Low NOx Burner Technology w/ Separated OFA	LNB w/SOFA					
Merom	1SG1	507	upgrade FGD-90% 2012, upgrade to 95% 2014	Selective Catalytic Reduction Low Nox Burner Technology w/ Overfire Air	SCR+FGD					
Merom	2SG1	493	upgrade FGD-90% 2012, upgrade to 95% 2014	Selective Catalytic Reduction Low NO _x Burner Technology w/ Overfire Air	SCR+FGD					
Michigan City Generating Station	12	469		Overfire Air - Selective Catalytic Reduction	SCR			Hg Control		Hg Control
Petersburg	1	232	Wet Limestone	Low NO _x Burner Technology w/ Closed-coupled/Sep. OFA	FGD+LNB			SCR		SCR
Petersburg	2	407	Wet Limestone	LNB w/ Closed-coupled/Separated OFA Selective Catalytic Reduction	FGD+SCR					
Petersburg	3	510	Wet Limestone	LNB w/ Closed-coupled/Separated OFA Selective Catalytic Reduction	FGD+SCR					
Petersburg	4	545	Wet Limestone	Low NO _x Burner Technology w/ Closed-coupled/Sep. OFA	FGD+LNB		SCR	SCR		SCR
R Gallagher*	1	140	Shut down by 2/1/12 or Convert to NG 1/1/13	Shut down by 2/1/12 or Convert to NG 1/1/13	LNB					

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FACILITY_NAME	UNIT ID	Capacity MWatts	2009 + Projected SO ₂ CONTROL	2009 + Projected NO _x CONTROL	IPM Existing	IPM 2010 Retrofit	IPM 2015 Retrofit	IPM 2020 Retrofit	LADCO 2012 Retrofit	LADCO 2018 Retrofit
R Gallagher*	2	140	Dry Sorbent Technology 1/1/11	Low NO _x Burner Technology w/ Overfire Air	LNB					
R Gallagher*	3	140	Shut down by 2/1/12 or Convert to NG 1/1/13	Shut down by 2/1/12 or Convert to NG 1/1/13	LNB					
R Gallagher*	4	140	Dry Sorbent Technology 1/1/11	Low NO _x Burner Technology w/ Overfire Air	LNB					
R M Schahfer Generating Station	14	431		Overfire Air Selective Catalytic Reduction	SCR			Hg Control		Hg Control
R M Schahfer Generating Station	15	472		LNB (Dry Bottom only) A 35% efficient stratified overfire air system was added in 2008	LNB			Hg Control		Hg Control
R M Schahfer Generating Station	17	361	Wet Limestone	LNB w/ Closed-coupled/Separated OFA	SCR	FGD+ LNB	FGD+ LNB	FGD+ LNB		
R M Schahfer Generating Station	18	361	Wet Limestone	LNB w/ Closed-coupled/Separated OFA	LNB	FGD+ LNB	FGD+ LNB	FGD+ LNB		
Rockport*	MB1	1300	FGD 12/31/17 TR allowances < CAIR 2012 and 2014	LNB (Dry Bottom only) (SCR 12/31/17)	LNB w/OFA	FGD	FGD	FGD+ SCR	FGD	FGD+ SCR
Rockport*	MB2	1300	FGD 12/31/17 TR allowances < CAIR 2012 and 2014	Low NO _x Burner Technology (Dry Bottom only) (SCR 12/31/19)	LNB w/OFA	FGD	FGD	FGD+ SCR	FGD	FGD+ SCR
State Line Generating Station (IN)	3	187								
State Line Generating Station (IN)	4	303		Overfire Air		SCR	SCR	SCR+Hg Control	SCR	SCR (-Hg Control)
Tanners Creek*	U1	140	Burn only coal with no more than 1.2 lb/MMBtu annual average	Low NO _x Burner Technology (Dry Bottom only) A 30% efficient SNCR will be in place in 2010. SNCR will operate year round	OFA					

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FACILITY_ NAME	UNIT ID	Capacity MWatts	2009 + Projected SO ₂ _CONTROL	2009 + Projected NO _x _CONTROL	IPM Existing	IPM 2010 Retrofit	IPM 2015 Retrofit	IPM 2020 Retrofit	LADCO 2012 Retrofit	LADCO 2018 Retrofit
Tanners Creek*	U2	140	Burn only coal with no more than 1.2 lb/MMBtu annual average	Low NO _x Burner Technology (Dry Bottom only) A 30% efficient SNCR will be in place in 2010. SNCR will operate year round	OFA					
Tanners Creek*	U3	200	Burn only coal with no more than 1.2 lb/MMBtu annual average	Low NO _x Burner Technology (Dry Bottom only) A 30% efficient SNCR will be in place in 2010. SNCR will operate year round	OFA			FGD+ SCR		FGD+ SCR
Tanners Creek*	U4	500	Burn only coal with no more than 1.2% sulfur content annual average	Overfire Air	OFA					
Wabash River Gen Station*	1	85	IGCC	IGCC						
Wabash River Gen Station*	2	85	Shut Down 9-30-09	Shut Down 9-30-09	LNB					
Wabash River Gen Station*	3	85	Shut Down 9-30-09	Shut Down 9-30-09	LNB			SNCR		SNCR
Wabash River Gen Station*	4	85		Low NO _x Burner Technology w/ Overfire Air	LNB					
Wabash River Gen Station*	5	95	Shut Down 9-30-09	Shut Down 9-30-09	LNB			SNCR		SNCR
Wabash River Gen Station*	6	318	TR allocation in 2014 < CAIR	Low NO _x Burner Technology w/ Separated OFA	LNB			FGD+ SCR		FGD+ SCR
Whitewater Valley	1	34.77		Low NO _x Burner Technology w/ Separated OFA Ammonia Injection Overfire Air	LNB					