Table 3-30 New Source Review (NSR) Settlements in EPA 2023 Reference Case

			Settlement Actions															
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
Company and Plant	State	Unit	Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date	Notes	Reference
Alabama Power																		
James H. Miller	Alabama	Unit 3			Install and operate FGD continuously	95%	12/31/11	Operate existing SCR continuously	0.1	05/01/08		PM rate no greater than 0.03 lb/mmBTU	12/31/06	Within 45 days of settlement entry, APC must retire 7,538 SO_2 emission allowances.	APC shall not sell, trade, or otherwise exchange any Plant Miller excess SO_2 emission allowances outside of the APC system	1/1/21	Units installed Wet FGD and SCR 1) Settlement requires 95% removal efficiency for SO_2 or 90% in the event that the unit combust a coal with sulfur content greater than 1% by weight. 2) The settlements require APC to retire $4,900,000 of SO_2 emission allowances within 45 days of consent decree entry. 3) EPA assumed a retirement of 7, 538 SO_2 allowances based on a current allowance price of $650.	http://www2.epa.gov/enforcement/alabama-power-company-clean-air-act-settlement
	Alabama	Unit 4			Install and operate FGD continuously	95%	12/31/11	Operate existing SCR continuously	0.1	05/01/08		PM rate no greater than 0.03 lb/mmBTU	12/31/06			1/1/21		
Minnkota Power Cooperative																		
			Beginning 1/01/2006, Minnkota shall not emit more than 31,000 tons of SO_2/year, no more than 26,000 tons beginning 2011, no more than 11,500 tons beginning 1/01/2012. If Unit 3 is not operational by 12/31/2015, then beginning 1/01/2014, the plant wide emission shall not exceed 8,500.																-
Milton R. Young	North Dakota	Unit 1			Install and continuously operate FGD	95% if wet FGD, 90% if dry	12/31/11	Install and continuously operate Over-fire AIR, or equivalent technology with emission rate < 0.36	0.36	12/31/09		PM rate no greater than 0.03 lb/MMBtu if wet FGD, .015 lb/MMBtu if dry FGD		Plant will surrender 4,346 allowances for each year 2012 – 2015, 8,693 allowances for years 2016 – 2018, 12,170 allowances for year 2019, and 14,886 allowances/year thereafter if Units 1 – 3 are operational by 12/31/2015. If only Units 1 and 2 are operational by12/31/2015, the plant shall retire 17,886 units in 2020 and thereafter.	Minnkota shall not sell or trade NO_x allowances allocated to Units 1, 2, or 3 that would otherwise be available for sale or trade as a result of the actions taken by the settling defendants to comply with the requirements		Units installed Wet FGD and SNCR Beginning 12/31/2010, Unit 2 will achieve a phase II average NO_x emission rate established through its NO_x BACT determination. Beginning 12/31/2011, Unit 1 will achieve a phase II NO_x emission rate established by its BACT determination.	http://www2.epa.gov/enforcement/minnkota-power-cooperative-and-square-butte-electric-cooperative-settlement
	North Dakota	Unit 2			Design, upgrade, and continuously operate FGD	90%	12/31/10	Install and continuously operate over-fire AIR, or equivalent technology with emission rate < 0.356	0.35	12/31/07		PM rate no greater than 0.03 lb/MMBtu	Before 2008					
SIGECO																		
FB Culley	Indiana	Unit 1	Repower to natural gas (or retire)	12/31/06										The provision did not specify an amount of SO_2 allowances to be surrendered. It only provided that excess allowances resulting from compliance with NSR settlement provisions must be retired.			Unit has retired	http://www2.epa.gov/enforcement/southern-indiana-gas-and-electric-company-sigeco-fb-culley-plant-clean-air-act-caa
	Indiana	Unit 2			Improve and continuously operate existing FGD (shared by Units 2 and 3)	95%	06/30/04										Unit has retired	
	Indiana	Unit 3			Improve and continuously operate existing FGD (shared by Units 2 and 3)	95%	06/30/04	Operate Existing SCR Continuously	0.1	09/01/03	Install and continuously operate a Baghouse	PM Emission Rate of 0.015 lb/mmBTU	06/30/07				Unit installed Wet FGD, SCR, and Baghouse	
TECO																		
Big Bend	Florida	Unit 1			Existing Scrubber (shared by Units 1 & 2)	95% (95% or .25)	09/1/00 (01/01/13)	Install SCR	0.12	06/01/08		0.03		The provision did not specify an amount of SO_2 allowances to be surrendered. It			Unit has retired	http://www2.epa.gov/enforcement/tampa-electric-

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
	Florida	Unit 2			Existing Scrubber (shared by Units 1 & 2)	95% (95% or .25)	09/1/00 (01/01/13)	Install SCR	0.12	06/01/09		0.03		only provided that excess allowances resulting from compliance with NSR settlement provisions must be retired.			Unit has retired	company-teco-clean-air-act-caa-settlement
	Florida	Unit 3			Existing Scrubber (shared by Units 3 & 4)	93% if Units 3 & 4 are operating	2000 (01/01/10)	Install SCR	0.12	06/01/10		0.03					Unit has retired	
	Florida	Unit 4			Existing Scrubber (shared by Units 3 & 4)	93% if Units 3 & 4 are operating	06/22/05	Install SCR	0.1	07/01/07							Unit installed Wet FGD and SCR	
Gannon	Florida	Six units	Retire all six coal units and repower at least 550 MW of coal capacity to natural gas	12/31/04													Unit has retired	
WEPCO																		
			WEPCO shall comply with the following system wide average NO_x emission rates and total NO_x tonnage permissible: by 1/1/2005 an emission rate of 0.27 and 31,500 tons, by 1/1/2007 an emission rate of 0.19 and 23,400 tons, and by 1/1/2013 an emission rate of 0.17 and 17, 400 tons. For SO_2 emissions, WEPCO will comply with: by 1/1/2005 an emission rate of 0.76 and 86,900 tons, by 1/1/2007 an emission rate of 0.61 and 74,400 tons, by 1/1/2008 an emission rate of 0.45 and 55,400 tons, and by 1/1/2013 an emission rate of 0.32 and 33,300 tons.															http://www2.epa.gov/enforcement/wisconsin-electric-power-company-wepco-clean-air-act-civil-settlement
Presque Isle	Michigan	Units 1 – 4	Retire or install SO_2 and NO_x controls	12/31/12	Install and continuously operate FGD (or approved equiv. tech)	95% or 0.1	12/31/12	Install SCR (or approved tech) and continually operate	0.1	12/31/12				The provision did not specify an amount of SO_2 allowances to be surrendered. It only provided that excess allowances resulting from compliance with NSR settlement provisions must be retired.			Units have retired	
Presque Isle	Michigan	Units 5, 6						Install and operate low NO_x burners		12/31/03							Units have retired	
Presque Isle	Michigan	Units 7, 8						Operate existing low NO_x burners		12/31/05	Install Baghouse						Units have retired	
Presque Isle	Michigan	Unit 9						Operate existing low NO_x burners		12/31/06	Install Baghouse							
Pleasant Prairie	Wisconsin	Unit 1			Install and continuously operate FGD (or approved control tech)	95% or 0.1	12/31/06	Install and continuously operate SCR (or approved tech)	0.1	12/31/06							Both units are retired.	
Pleasant Prairie	Wisconsin	Unit 2			Install and continuously operate FGD (or approved control tech)	95% or 0.1	12/31/07	Install and continuously operate SCR (or approved tech)	0.1	12/31/03								
Oak Creek	Wisconsin	Units 5, 6			Install and continuously operate FGD (or approved control tech)	95% or 0.1	12/31/12	Install and continuously operate SCR (or approved tech)	0.1	12/31/12							Units have retired	
Oak Creek	Wisconsin	Unit 7			Install and continuously operate FGD (or approved control tech)	95% or 0.1	12/31/12	Install and continuously operate SCR (or approved tech)	0.1	12/31/12							Units have retired	
Oak Creek	Wisconsin	Unit 8			Install and continuously operate FGD (or approved control tech)	95% or 0.1	12/31/12	Install and continuously operate SCR (or approved tech)	0.1	12/31/12								

			Settlement Actions															
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
Company and Plant	State	Unit	Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date	Notes	Reference
Port Washington	Wisconsin	Units 1 – 4	Retire	12/31/04 for Units 1 – 3. Unit 4 by entry of consent decree													Units have retired	
Valley	Wisconsin	Boilers 1 – 4	converted to natural gas	2016				Operate existing low NO_x burner	0.08	12/31/15							Units have converted to natural gas	
VEPCO																		
			The Total Permissible NO_x Emissions (in tons) from VEPCO system are: 104,000 in 2003, 95,000 in 2004, 90,000 in 2005, 83,000 in 2006, 81,000 in 2007, 63,000 in 2008 – 2010, 54,000 in 2011, 50,000 in 2012, and 30,250 each year thereafter. Beginning 1/1/2013 they will have a system wide emission rate no greater than 0.15 lbs/MMBtu.														
Mount Storm	West Virginia	Units 1 – 3			Construct or improve FGD	95% or 0.15	01/01/05	Install and continuously operate SCR	0.11	01/01/08				On or before March 31 of every year beginning in 2013 and continuing thereafter, VEPCO shall surrender 45,000 SO_2 allowances.			Units installed Wet FGD and SCR	http://www2.epa.gov/enforcement/virginia-electric-and-power-company-vepco-clean-air-act-caa-settlement
Chesterfield	Virginia	Unit 4	Retired	12/13/18	Install and continuously operate FGD			Install and continuously operate SCR	0.1	01/01/13							Units have retired. PJM deactivation listing	
	Virginia	Unit 5	Retired	6/1/23	Construct or improve FGD	95% or 0.13	10/12/12	Install and continuously operate SCR	0.1	01/01/12							Units have retired. PJM deactivation listing	
	Virginia	Unit 6	Retired	6/1/23	Construct or improve FGD	95% or 0.13	01/01/10	Install and continuously operate SCR	0.1	01/01/11							Units have retired. PJM deactivation listing	
Chesapeake Energy	Virginia	Units 3, 4	Retire	12/1/2014				Install and continuously operate SCR	0.1	01/01/13							Units have retired.	
Clover	Virginia	Units 1, 2			Improve FGD	95% or 0.13	09/01/03											
Possum Point	Virginia	Units 3, 4	Retire and repower to natural gas Gas units are retired	05/02/03 12/13/18													Units have retired. PJM deactivation listing	
Santee Cooper																		
			Santee Cooper shall comply with the following system wide averages for NO_x emission rates and combined tons for emission of: by 1/01/2005 facility shall comply with an emission rate of 0.3 and 30,000 tons, by 1/1/2007 an emission rate of 0.18 and 25,000 tons, by 1/1/2010 and emission rate of 0.15 and 20,000 tons. For SO_2 emission the company shall comply with system wide averages of: by 1/1/2005 an emission rate of 0.92 and 95,000 tons, by 1/1/2007 and emission rate of 0.75 and 85,000 tons, by 1/1/2009 an emission rate of 0.53 and 70 tons, and by 1/1/2011 and emission rate of 0.5 and 65 tons.														
Cross	South Carolina	Unit 1			Upgrade and continuously operate FGD	95%	06/30/06	Install and continuously operate SCR	0.1	05/31/04				The provision did not specify an amount of SO_2 allowances to be surrendered. It only provided that excess allowances resulting from compliance with NSR settlement provisions must be retired.			Unit installed Wet FGD and SCR	http://www2.epa.gov/enforcement/south-carolina-public-service-authority-santee-cooper-settlement
	South Carolina	Unit 2			Upgrade and continuously operate FGD	87%	06/30/06	Install and continuously operate SCR	0.11/0.1	05/31/04 and 05/31/07							Unit installed Wet FGD and SCR	
Winyah	South Carolina	Unit 1			Install and continuously operate FGD	95%	12/31/08	Install and continuously operate SCR	0.11/0.1	11/30/04							Unit installed Wet FGD and SCR	
	South Carolina	Unit 2			Install and continuously operate FGD	95%	12/31/08	Install and continuously operate SCR	0.12	11/30/04							Unit installed Wet FGD and SCR	
	South Carolina	Unit 3			Upgrade and continuously operate existing FGD	90%	12/31/08	Install and continuously operate SCR	0.14/0.12	11/30/2005 and 11/30/08							Unit installed Wet FGD and SCR	
	South Carolina	Unit 4			Upgrade and continuously operate existing FGD	90%	12/31/07	Install and continuously operate SCR	0.13/0.12	11/30/05 and 11/30/08							Unit installed Wet FGD and SCR	

Company and Plant	State	Unit	Settlement Actions: Retire/Repower – Action	Retire/Repower – Effective Date	SO_2 control – Equipment	SO_2 control – Percent Removal or Rate	SO_2 control – Effective Date	NO_x Control – Equipment	NO_x Control – Rate	NO_x Control – Effective Date	PM or Mercury Control – Equipment	PM or Mercury Control – Rate	PM or Mercury Control – Effective Date	Allowance Retirement – Retirement	Allowance Restriction – Restriction	Effective Date	Notes	Reference
Grainger	South Carolina	Unit 1						Operate low NO_x burner or more stringent technology		06/25/04							Unit has retired	
	South Carolina	Unit 2						Operate low NO_x burner or more stringent technology		05/01/04							Unit has retired	
Jeffries	South Carolina	Units 3, 4	Retire	2012				Operate low NO_x burner or more stringent technology		06/25/04							Unit has retired	
OHIO EDISON																		
			Ohio Edison shall achieve reductions of 2,483 tons NO_x between 7/1/2005 and 12/31/2010 using any combination of: 1) low sulfur coal at Burger Units 4 and 5, 2) operating SCRs currently installed at Mansfield Units 1 – 3 during the months of October through April, and/or 3) emitting fewer tons than the Plant-Wide Annual Cap for NO_x required for the Sammis Plant. Ohio Edison must reduce 24,600 tons system-wide of SO_2 by 12/31/2010.															
			No later than 8/11/2005, Ohio Edison shall install and operate low NO_x burners on Sammis Units 1, 2,4,5,6, and 7 and overfired air on Sammis Units 1,2,3,6, and 7. No later than 12/1/2005, Ohio Edison shall install advanced combustion control optimization with software to minimize NO_x emissions from Sammis Units 1 – 5.															
W.H. Sammis Plant	Ohio	Unit 1			Install Induct Scrubber (or approved equiv. control tech)	50% removal or 1.1 lbs/MMBtu	12/31/08	Install SNCR (or approved alt. tech) & operate continuously	0.25	10/31/07				Beginning on 1/1/2006, Ohio Edison may use, sell or transfer any restricted SO_2 only to satisfy the Operational Needs at the Sammis, Burger and Mansfield Plant, or new units within the FirstEnergy System that comply with a 96% removal for SO_2. For calendar year 2006 through 2017, Ohio Edison may accumulate SO_2 allowances for use at the Sammis, Burger, and Mansfield plants, or FirstEnergy units equipped with SO_2 Emission Control Standards. Beginning in 2018, Ohio Edison shall surrender unused restricted SO_2 allowances.			Plant-wide NOx Annual Caps: 11,371 tons 7/1/2005 – 12/31/2005; 21,251 tons 2006; 20,596 tons 2007; 18,903 tons 2008; 17,328 tons 2009 – 2010; 14,845 tons 2011; 11,863 2012 onward. Sammis Plant-Wide Annual SO_2 Caps: 58,000 tons SO_2 7/1/2005-12/31/2005; 116,000 tons 1/1/2006 – 12/31/2007; 114,000 tons 1/1/2008-12/31/2008; 101,500 tons 1/1/2009 – 12/31/2010; 29,900 tons 1/1/2011 onward. Sammis Units 1 – 5 are also subject to the following SO_2 Monthly Caps if Ohio Edison installs the improved SO_2 control technology (Unit 5's option A): 3,242 tons May, July, and August 2010; 3,137 tons June and September 2010. Ohio Edison has installed the required SO_2 technology (Unit 5's option B), so the Monthly Caps are: 2,533 tons May, July, and August 2010; 2,451 tons June and September 2010. Add'l Monthly Caps are: 2,533 tons May, July, and August 2011; 2,451 tons June and September 2011 thereafter.	http://www2.epa.gov/enforcement/ohio-edison-company-wh-sammis-power-station-clean-air-act-2005-settlement-and-2009
	Ohio	Unit 2			Install Induct Scrubber (or approved equiv. control tech)	50% removal or 1.1 lbs/MMBtu	12/31/08	Operate existing SNCR continuously	0.25	02/15/06								
	Ohio	Unit 3			Install Induct Scrubber (or approved equiv. control tech)	50% removal or 1.1 lbs/MMBtu	12/31/08	Operate low NO_x burners and overfire air by 12/1/05; install SNCR (or approved alt. tech) & operate continuously by 12/31/07	0.25	12/01/05 and 10/31/07								
	Ohio	Unit 4			Install Induct Scrubber (or approved equiv. control tech)	50% removal or 1.1 lbs/MMBtu	06/30/09	Install SNCR (or approved alt. tech) & operate continuously	0.25	10/31/07								
	Ohio	Unit 5			Install Flash Dryer Absorber or ECO_2 (or approved equiv. control tech) & operate continuously	50% removal or 1.1 lbs/MMBtu	06/29/09	Install SNCR (or approved alt. tech) & Operate Continuously	0.29	03/31/08							W.H. Sammis Plant units 1-7 retired.	
	Ohio	Unit 6			Install FGD[3] (or approved equiv. control tech) & operate continuously	95% removal or 0.13 lbs/MMBtu	06/30/11	Install SNCR (or approved alt. tech) & operate continuously	"Minimum Extent Practicable"	06/30/05	Operate Existing ESP Continuously	0.03	01/01/10				In addition to SNCR, settlement requires installation of first SCR (or approved alt tech) on either Unit 6 or 7 by 12/31/2010; second installation by 12/31/2011. Both SCRs must achieve 90% Design Removal Efficiency by 180 days	

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
	Ohio	Unit 7			Install FGD (or approved equiv. control tech) & operate continuously	95% removal or 0.13 lbs/MMBtu	06/30/11	Operate existing SNCR Continuously	"Minimum Extent Practicable"	08/11/05	Operate Existing ESP Continuously	0.03	01/01/10				after installation date. Each SCR must provide a 30-Day Rolling average. NO_x Emission Rate of 0.1 lbs/MMBtu starting 180 days after installation dates above.	
Mansfield Plant	Pennsylvania	Unit 1			Upgrade existing FGD	95%	12/31/05										Mansfield Plant units retired. Additional Mansfield Plant-wide SO_2 reductions are as follows: 4,000 tons in 2006, 8,000 tons in 2007, and 12,000 tons/yr for every year after. Settlement allows relinquishment of SO_2 requirement upon shutdown of unit, after which the SO_2 reductions must be made by another plant(s).	
	Pennsylvania	Unit 2			Upgrade existing FGD	95%	12/31/06											
	Pennsylvania	Unit 3			Upgrade existing FGD	95%	10/31/07											
Eastlake	Ohio	Unit 5						Install low NO_x burners, over-fired air and SNCR & operate continuously	"Minimize Emissions to the Extent Practicable"	12/31/06							Eastlake unit has retired. Settlement requires Eastlake Plant to achieve additional reductions of 11,000 tons of NO_x per year commencing in calendar year 2007, and no less than 10,000 tons must come from this unit. The extra 1,000 tons may come from this unit or another unit in the region. Upon shutdown of Eastlake, another plant must achieve these reductions.	
Burger	Ohio	Unit 4	Repower with at least 80% biomass fuel, up to 20% low sulfur coal OR Retire by 12/31/2010	12/31/11													Units have retired	
	Ohio	Unit 5		12/31/11														
MIRANT[1,6]																		
			System-wide NO_x Emission Annual Caps: 36,500 tons 2004; 33,840 tons 2005; 33,090 tons 2006; 28,920 tons 2007; 22,000 tons 2008; 19,650 tons 2009; 16,000 tons 2010 onward. System-wide NO_x Emission Ozone Season Caps: 14,700 tons 2004; 13,340 tons 2005; 12,590 tons 2006; 10,190 tons 2007; 6,150 tons 2008 – 2009; 5,200 tons 2010 thereafter. Beginning on 5/1/2008, and continuing for each and every Ozone Season thereafter, the Mirant System shall not exceed a System-wide Ozone Season Emission Rate of 0.150 lbs/MMBtu NO_x.															
Potomac River Plant	Virginia	Unit 1	Retire	12/21/2012													Potomac River Plant units retired. Settlement requires installation of Separated Overfire Air tech (or more effective technology) by 5/1/2005. Plant-wide Ozone Season NO_x Caps: 1,750 tons 2004; 1,625 tons 2005; 1,600 tons 2006 – 2009; 1,475 tons 2010 thereafter. Plant-wide annual NO_x Caps are 3,700 tons in 2005 and each year thereafter.	http://www2.epa.gov/enforcement/mirant-clean-air-settlement
	Virginia	Unit 2																
	Virginia	Unit 3						Install low NO_x burners (or more effective tech) & operate continuously		05/01/04								
	Virginia	Unit 4						Install low NO_x burners (or more effective tech) & operate continuously		05/01/04								
	Virginia	Unit 5						Install low NO_x burners (or more effective tech) & operate continuously		05/01/04								
Morgantown Plant	Maryland	Unit 1						Install SCR (or approved alt. tech) & operate continuously	0.1	05/01/07							Unit has retired	

Company and Plant	State	Unit	Settlement Actions: Retire/Repower: Action	Retire/Repower: Effective Date	SO_2 control: Equipment	SO_2 control: Percent Removal or Rate	SO_2 control: Effective Date	NO_x Control: Equipment	NO_x Control: Rate	NO_x Control: Effective Date	PM or Mercury Control: Equipment	PM or Mercury Control: Rate	PM or Mercury Control: Effective Date	Allowance Retirement: Retirement	Allowance Restriction: Restriction	Effective Date	Notes	Reference
	Maryland	Unit 2						Install SCR (or approved alt. tech) & operate continuously	0.1	05/01/08							Unit has retired	
Chalk Point	Maryland	Unit 1			Install and continuously operate FGD (or equiv. technology)	95%	06/01/10							For each year after Mirant commences FGD operation at Chalk Point, Mirant shall surrender the number of SO_2 Allowances equal to the amount by which the SO_2 Allowances allocated to the Units at the Chalk Point Plant are greater than the total amount of SO_2 emissions allowed under this Section XVIII.			Chalk Point units retired. Mirant must install and operate FGD by 6/1/2010 if authorized by court to reject ownership interest in Morgantown Plant, or by no later than 36 months after they lose ownership interest of the Morgantown Plant. [Installed]	
	Maryland	Unit 2			Install and continuously operate FGD (or equiv. technology)	95%	06/01/10											
ILLINOIS POWER																		
			System-wide NO_x Emission Annual Caps: 15,000 tons 2005; 14,000 tons 2006; 13,800 tons 2007 onward. System-wide SO_2 Emission Annual Caps: 66,300 tons 2005 – 2006; 65,000 tons 2007; 62,000 tons 2008 – 2010; 57,000 tons 2011; 49,500 tons 2012; 29,000 tons 2013 onward.															
Baldwin	Illinois	Unit 1			Install wet or dry FGD (or approved equiv. alt. tech) & operate continuously	0.1	12/31/11	Operate OFA & existing SCR continuously	0.1	08/11/05	Install & continuously operate Baghouse	0.015	12/31/10	By year end 2008, Dynegy will surrender 12,000 SO_2 emission allowances, by year end 2009 it will surrender 18,000, by year end 2010 it will surrender 24,000, any by year end 2011 and each year thereafter it will surrender 30,000 allowances. If the surrendered allowances result in insufficient remaining allowances allocated to the units comprising the DMG system, DMG can request to surrender fewer SO_2 allowances.			Unit has retired	http://www2.epa.gov/enforcement/illinois-power-company-and-dynegy-midwest-generation-settlement
	Illinois	Unit 2			Install wet or dry FGD (or approved equiv. alt. tech) & operate continuously	0.1	12/31/11	Operate OFA & existing SCR continuously	0.1	08/11/05	Install & continuously operate Baghouse	0.015	12/31/10				Unit has retired	
	Illinois	Unit 3			Install wet or dry FGD (or approved equiv. alt. tech) & operate continuously	0.1	12/31/11	Operate OFA and/or low NO_x burners	0.12 until 12/30/12; 0.1 from 12/31/12	08/11/05 and 12/31/12	Install & continuously operate Baghouse	0.015	12/31/10				Unit has retired	
Havana	Illinois	Unit 6			Install wet or dry FGD (or approved equiv. alt. tech) & operate continuously	1.2 lbs/MMBtu until 12/30/2012; 0.1 lbs/MMBtu from 12/31/2012 onward	08/11/05 and 12/31/12	Operate OFA and/or low NO_x burners & operate existing SCR continuously	0.1	08/11/05	Install & continuously operate Baghouse, then install ESP or alt. PM equip	For Bag-house: .015 lbs/MMBtu; For ESP: .03 lbs/MMBtu	For Baghouse: 12/31/12; For ESP: 12/31/05				Unit has retired	
Hennepin	Illinois	Unit 1				1.2	07/27/05	Operate OFA and/or low NO_x burners	"Minimum Extent Practicable"	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/06				Unit has retired Settlement requires first installation of ESP at either Unit 1 or 2 on 12/31/2006; and on the other by 12/31/2010.	

			Settlement Actions															
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
Company and Plant	State	Unit	Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date	Notes	Reference
	Illinois	Unit 2				1.2	07/27/05	Operate OFA and/or low NO_x burners	"Minimum Extent Practicable"	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/06				Unit has retired	
Vermilion	Illinois	Unit 1				1.2	01/31/07	Operate OFA and/or low NO_x burners	"Minimum Extent Practicable"	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/10				Unit has retired	
Vermilion	Illinois	Unit 2				1.2	01/31/07	Operate OFA and/or low NO_x burners	"Minimum Extent Practicable"	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/10				Unit has retired	
Wood River	Illinois	Unit 4				1.2	07/27/05	Operate OFA and/or low NO_x burners	"Minimum Extent Practicable"	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/05				Unit has retired Settlement requires first installation of ESP at either Unit 4 or 5 on 12/31/2005; and on the other by 12/31/2007.	
Wood River	Illinois	Unit 5				1.2	07/27/05	Operate OFA and/or low NO_x burners	"Minimum Extent Practicable"	08/11/05	Install ESP (or equiv. alt. tech) & continuously operate ESPs	0.03	12/31/05				Unit has retired	
Kentucky Utilities Company																		

Company and Plant	State	Unit	Settlement Actions: Retire/Repower: Action	Retire/Repower: Effective Date	SO_2 control: Equipment	SO_2 control: Percent Removal or Rate	SO_2 control: Effective Date	NO_x Control: Equipment	NO_x Control: Rate	NO_x Control: Effective Date	PM or Mercury Control: Equipment	PM or Mercury Control: Rate	PM or Mercury Control: Effective Date	Allowance Retirement: Retirement	Allowance Restriction: Restriction	Effective Date	Notes	Reference
EW Brown Generating Station	Kentucky	Unit 3			Install FGD	97% or 0.100	12/31/10	Install and continuously operate SCR by 12/31/2012, continuously operate low NO_x boiler and OFA.	0.07	12/31/12	Continuously operate ESP	PM Rate no greater than 0.03 lb/MMBtu	12/31/10	KU must surrender 53,000 SO_2 allowances of 2008 or earlier vintage by March 1, 2009. All surplus NO_x allowances must be surrendered through 2020.	SO_2 and NO_x allowances may not be used for compliance, and emissions decreases for purposes of complying with the Consent Decree do not earn credits.		Unit installed Wet FGD, SCR, Low NOx Burner Technology w/ Closed-coupled/Separated OFA and ESPC + Baghouse. Annual SO_2 cap is 31,998 tons through 2010, then 2,300 tons each year thereafter.	http://www2.epa.gov/enforcement/kentucky-utilities-company-clean-air-act-settlement
Salt River Project Agricultural Improvement and Power District (SRP)																		
Coronado Generating Station	Arizona	Unit 1 or Unit 2			Immediately begin continuous operation of existing FGDs on both units, install new FGD.	95% or 0.08	New FGD installed by 1/1/2012	Install and continuously operate low NO_x burner and SCR	0.32 prior to SCR installation, 0.080 after	LNB by 06/01/2009, SCR by 06/01/2014	Optimization and continuous operation of existing ESPs.	PM Rate no greater than 0.030 lb/mmBtu	Optimization begins immediately, rate limit begins 01/01/12 (date of new FGD installation)	Beginning in 2012, all surplus SO_2 allowances for both Coronado and Springville Unit 4 must be surrendered through 2020. The allowances limited by this condition may, however, be used for compliance at a prospective future plant using BACT and otherwise specified in par. 54 of the consent decree.	SO_2 and NO_x allowances may not be used for compliance, and emissions decreases for purposes of complying with the Consent Decree do not earn credits.		Unit 1 installed Wet FGD, Low NOx Burner Technology w/ Overfire Air, and ESP Unit 2 installed Wet FGD, Low NOx Burner Technology w/ Overfire Air, SCR, and ESP Annual plant-wide NO_x cap is 7,300 tons after 6/1/2014.	http://www2.epa.gov/enforcement/salt-river-project-agriculture-improvement-and-power-district-settlement
	Arizona	Unit 1 or Unit 2			Install new FGD	95% or 0.08	01/01/13	Install and continuously operate low NO_x burner	0.32	06/01/11			Optimization begins immediately, rate limit begins 01/01/13 (date of new FGD installation)					
American Electric Power																		
Eastern System-Wide [Modified Limits						Annual Cap (tons)	Year		Annual Cap (tons)	Year								https://ipbs.org/projects/assets/AEP-FifthJointModification.pdf
						145,000	2016-2018		**72,000**	2016-2017								
						113,000	2019-2020		**62,000**	2018-2020								
						94,000	2021-2028		**52,000**	2021-2028								
						89,000	2029 and thereafter		**44,000**	2029 and thereafter								
Eastern System-Wide						Annual Cap (tons)	Year		Annual Cap (tons)	Year				NO_x and SO_2 allowances that would have been made available by emission reductions pursuant to the Consent Decree must be surrendered.	NO_x and SO_2 allowances may not be used to comply with any of the limits imposed by the Consent Decree. The Consent Decree includes a formula for calculating excess NO_x allowances relative to the CSAPR Allocations, and restricts the use of some. See par. 74-79			http://www2.epa.gov/enforcement/american-electric-power-service-corporation
						450,000	2010		96,000	2009								
						450,000	2011		92,500	2010								
						420,000	2012		92,500	2011								
						350,000	2013		85,000	2012								
						340,000	2014		85,000	2013								

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
						275,000	2015		85,000	2014					for details. Reducing emissions below the Eastern System-Wide Annual Tonnage Limitations for NO_x and SO_2 earns super compliant allowances.			
						260,000	2016		75,000	2015								
						235,000	2017		72,000	2016 and thereafter								
						184,000	2018											
						174,000	2019 and thereafter											
At least 600MW from various units	West Virginia	Sporn 1 – 4	Retire, retrofit, or re-power	12/31/18													Sporn 1-4 have retired.	
	Virginia	Clinch River 1 – 3															Clinch River 1-2 converted to NG. Clinch River 3 retired	
	Indiana	Tanners Creek 1 – 3															Tanners Creek units retired	
	West Virginia	Kammer 1 – 3															Kammer 1-3 have retired.	
Amos	West Virginia	Unit 1			Install and continuously operate FGD		12/31/09	Install and continuously operate SCR		01/01/08							Unit installed Wet FGD and SCR	-
	West Virginia	Unit 2			Install and continuously operate FGD		12/31/10	Install and continuously operate SCR		01/01/09							Unit installed Wet FGD and SCR	-
	West Virginia	Unit 3			Install and continuously operate FGD		12/31/09	Install and continuously operate SCR		01/01/08							Unit installed Wet FGD and SCR	-
Big Sandy	Kentucky	Unit 1			Burn only coal with no more than 1.75 lbs/MMBtu annual average		Date of entry	Continuously operate low NO_x burners		Date of entry							Unit converted to natural gas	-
	Kentucky	Unit 2			Install and continuously operate FGD		12/31/15	Install and continuously operate SCR		01/01/09							Unit has retired	-
Cardinal	Ohio	Unit 1			Install and continuously operate FGD		12/31/08	Install and continuously operate SCR		01/01/09	Continuously operate ESP	PM Rate no greater than 0.03 lb/mmBTU	12/31/09				Installed Wet FGD, SCR, and ESP	-
	Ohio	Unit 2			Install and continuously operate FGD		12/31/08	Install and continuously operate SCR		01/01/09	Continuously operate ESP	PM Rate no greater than 0.03 lb/mmBTU	12/31/09				Installed Wet FGD, SCR, and ESP	-
	Ohio	Unit 3			Install and continuously operate FGD		12/31/12	Install and continuously operate SCR		01/01/09							Installed Wet FGD and SCR	-
Clinch River	Virginia	Units 1 – 3	Units 1 & 2: switch fuels to natural gas Unit 3: Retire	2016 2015		Plant-wide annual cap: 21,700 tons from 2010 to 2014, then 16,300 after 1/1/2015	2010 – 2014, 2015 and thereafter	Continuously operate low NO_x burners		Date of entry							Clinch River 3 has retired. Clinch River 1 and 2 have switched to natural gas and are equipped with SNCR & LNB + OFA. See TV permit.	-

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
Conesville	Ohio	Unit 1	Retire, retrofit, or re-power	Date of entry													Unit has retired	-
	Ohio	Unit 2	Retire, retrofit, or re-power	Date of entry													Unit has retired	-
	Ohio	Unit 3	Retire, retrofit, or re-power	12/31/12													Unit has retired	-
	Ohio	Unit 4			Install and continuously operate FGD		12/31/10	Install and continuously operate SCR		12/31/10							Unit has retired	-
	Ohio	Unit 5			Upgrade existing FGD	95%	12/31/09	Continuously operate low NO_x burners		Date of entry							Unit has retired	-
	Ohio	Unit 6			Upgrade existing FGD	95%	12/31/09	Continuously operate low NO_x burners		Date of entry							Unit has retired	-
Gavin	Ohio	Unit 1			Install and continuously operate FGD		Date of entry	Install and continuously operate SCR		01/01/09							Gavin installed Wet FGD and SCR	-
	Ohio	Unit 2			Install and continuously operate FGD		Date of entry	Install and continuously operate SCR		01/01/09							Gavin installed Wet FGD and SCR	-
Glen Lynn	Virginia	Units 1 – 3	Retire	6/1/15													Units have retired	-
	Virginia	Units 5, 6	Retire	6/1/15	Burn only coal with no more than 1.75 lbs/MMBtu annual average		Date of entry	Continuously operate low NO_x burners		Date of entry							Units have retired	-
Kammer	West Virginia	Units 1 – 3				Plant-wide annual cap: 35,000	01/01/10	Continuously operate over-fire air		Date of entry							Units have retired	-
Kanawha River	West Virginia	Units 1, 2			Burn only coal with no more than 1.75 lbs/MMBtu annual average		Date of entry	Continuously operate low NO_x burners		Date of entry							Units have retired	-
Mitchell	West Virginia	Unit 1			Install and continuously operate FGD		12/31/07	Install and continuously operate SCR		01/01/09							Mitchell installed Wet FGD and SCR	-
	West Virginia	Unit 2			Install and continuously operate FGD		12/31/07	Install and continuously operate SCR		01/01/09							Mitchell installed Wet FGD and SCR	-
Mountaineer	West Virginia	Unit 1			Install and continuously operate FGD		12/31/07	Install and continuously operate SCR		01/01/08							Mountaineer installed Wet FGD and SCR	-
Muskingum River	Ohio	Units 1 – 4	Retire, retrofit, or re-power	12/31/15													Units have retired	-
	Ohio	Unit 5			Install and continuously operate FGD		12/31/15	Install and continuously operate SCR		01/01/08	Continuously operate ESP	PM Rate no greater than 0.03 lb/mmBTU	12/31/02				Unit has retired	-

Company and Plant	State	Unit	Settlement Actions: Retire/Repower: Action	Retire/Repower: Effective Date	SO_2 control: Equipment	SO_2 control: Percent Removal or Rate	SO_2 control: Effective Date	NO_x Control: Equipment	NO_x Control: Rate	NO_x Control: Effective Date	PM or Mercury Control: Equipment	PM or Mercury Control: Rate	PM or Mercury Control: Effective Date	Allowance Retirement: Retirement	Allowance Restriction: Restriction	Effective Date	Notes	Reference
Picway	Ohio	Unit 9						Continuously operate low NO_x burners		Date of entry							Unit has retired	-
Rockport			Rockport Units 1 & 2 shall not exceed an Annual Tonnage Limit of 28 MTons of SO_2 in 2016- 2017, 26 Mtons in 2018-2019, 22 Mtons in 2020, 10 Mtons in 2021-2028 and 5 Mtons in 2029 and each year thereafter.															
Rockport	Indiana	Unit 1			Install DSI __ Install and continuously operate FGD		4/16/2015 __ 12/31/2025	Install and continuously operate SCR		12/31/25							Rockport installed DSI and SCR. Plans to retire 2029.	-
Rockport	Indiana	Unit 2			Install DSI __ Install and continuously operate FGD		4/16/2015 __ 12/31/2028	Install and continuously operate SCR		12/31/28							Rockport installed DSI and SCR. Plans to retire 2029.	-
Sporn	West Virginia	Unit 5	Retire, retrofit, or re-power	12/31/13													Unit has retired	-
Tanners Creek	Indiana	Units 1 – 3			Burn only coal with no more than 1.2 lbs/MMBtu annual average		Date of entry	Continuously operate low NO_x burners		Date of entry							Units have retired	-
Tanners Creek	Indiana	Unit 4			Burn only coal with no more than 1.2% sulfur content annual average		Date of entry	Continuously operate over-fire air		Date of entry							Unit has retired	-
East Kentucky Power Cooperative Inc.																		
Dale Plant	Kentucky	Unit 1	Retire	2012				Install and continuously operate low NO_x burners by 10/31/2007	0.46	01/01/08				EKPC must surrender 1,000 NO_x allowances immediately under the ARP, and 3,107 under the NO_x SIP Call. EKPC must also surrender 15,311 SO_2 allowances.		Date of entry	Unit has retired	http://www2.epa.gov/enforcement/east-kentucky-power-cooperative-settlement
Dale Plant	Kentucky	Unit 2	Retire	2012				Install and continuously operate low NO_x burners by 10/31/2007	0.46	01/01/08							Unit has retired	
System-wide	Kentucky		By 12/31/2009, EKPC shall choose whether to: 1) install and continuously operate NO_x controls at Cooper 2 by 12/31/2012 and SO_2 controls by 6/30/2012 or 2) retire Dale 3 and Dale 4 by 12/31/2012.															
System-wide	Kentucky					12-month rolling limit (tons)	Start of 12-month cycle		12-month rolling limit (tons)	Start of 12-month cycle								
System-wide	Kentucky				System-wide 12-month rolling tonnage limits apply	57,000	10/01/08	All units must operate low NO_x boilers	11,500	01/01/08	PM control devices must be operated continuously system-wide, ESPs must be optimized within 270 days of entry date, or EKPC may choose to submit a PM Pollution Control Upgrade Analysis.	PM Rate of no greater than 0.03 lb/mmBTU	1 year from entry date	All surplus SO_2 allowances must be surrendered each year, beginning in 2008.	SO_2 and NO_x allowances may not be used to comply with the Consent Decree. NO_x allowances that would become available as a result of compliance with the Consent Decree may not be sold or traded. SO_2 and NO_x allowances allocated to EKPC must be used within the EKPC system. Allowances made available due to super compliance may be sold or traded.			
System-wide	Kentucky					40,000	07/01/11		8,500	01/01/13								
System-wide	Kentucky					28,000	01/01/13		8,000	01/01/15								

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
Spurlock	Kentucky	Unit 1			Install and continuously operate FGD	95% or 0.1	6/30/2011	Continuously operate SCR	0.12 for Unit 1 until 01/01/2013, at which point the unit limit drops to 0.1. Prior to 01/01/2013, the combined average when both units are operating must be no more than 0.1	60 days after entry							Unit installed Wet FGD and SCR	
	Kentucky	Unit 2			Install and continuously operate FGD by 10/1/2008	95% or 0.1	1/1/2009	Continuously operate SCR and OFA	0.1 for Unit 2, 0.1 combined average when both units are operating	60 days after entry							Unit installed WetFGD and SCR	
Dale Plant	Kentucky	Unit 3	Retire	2014													Unit has retired	
	Kentucky	Unit 4															Unit has retired	
Cooper	Kentucky	Unit 1																
	Kentucky	Unit 2			If EKPC opts to install controls rather than retiring Dale, it must install and continuously operate FGD or equiv. technology	95% or 0.10		If EKPC elects to install controls, it must continuously operate SCR or install equiv. technology	0.08 (or 90% if non-SCR technology is used)	12/31/12							EKPC has installed a Dry FGD and SCR on this unit.	
Nevada Power Company																		
			Beginning 1/1/2010, combined NO_x emissions from Units 5, 6, 7, and 8 must be no more than 360 tons per year.															
Clark Generating Station	Nevada	Unit 5	Units may only fire natural gas					Increase water injection immediately, then install and operate ultra-low NO_x burners (ULNBs) or equivalent technology. In 2009, Units 5 and 8 may not emit more than 180 tons combined	5ppm 1-hour average	12/31/08 (ULNB installation), 01/30/09 (1-hour average)					Allowances may not be used to comply with the Consent Decree, and no allowances made available due to compliance with the Consent Decree may be traded or sold.		Unit converted to natural gas	http://www2.epa.gov/enforcement/nevada-power-company-clean-air-act-caa-settlement
	Nevada	Unit 6							5ppm 1-hour average	12/31/09 (ULNB installation), 01/30/10 (1-hour average)							Unit converted to natural gas	
	Nevada	Unit 7							5ppm 1-hour average	12/31/09 (ULNB installation), 01/30/10 (1-hour average)							Unit converted to natural gas	

Company and Plant	State	Unit	Settlement Actions: Retire/Repower: Action	Retire/Repower: Effective Date	SO_2 control: Equipment	SO_2 control: Percent Removal or Rate	SO_2 control: Effective Date	NO_x Control: Equipment	NO_x Control: Rate	NO_x Control: Effective Date	PM or Mercury Control: Equipment	PM or Mercury Control: Rate	PM or Mercury Control: Effective Date	Allowance Retirement: Retirement	Allowance Restriction: Restriction	Effective Date	Notes	Reference
	Nevada	Unit 8							5ppm 1-hour average	12/31/08 (ULNB installation), 01/30/09 (1-hour average)							Unit converted to natural gas	
Dayton Power & Light																		
			Non-EPA Settlement of 10/23/2008															
Stuart Generating Station	Ohio	Station-wide			Complete installation of FGDs on each unit.	96% or 0.10	07/31/09	Owners may not purchase any new catalyst with SO_2 to SO_3 conversion rate greater than 0.5%	0.17 station-wide	30 days after entry		0.030 lbs per unit	07/31/09		NO_x and SO_2 allowances may not be used to comply with the monthly rates specified in the Consent Decree.		Units have retired	
									0.17 station-wide	60 days after entry date								
						82% including data from periods of malfunctions	7/31/09 through 7/30/11	Install control technology on one unit	0.10 on any single unit	12/31/12		Install rigid-type electro-des in each unit's ESP	12/31/15					
						82% including data from periods of malfunctions	after 7/31/11		0.15 station-wide	07/01/12								
									0.10 station-wide	12/31/14								
PSEG FOSSIL, Amended Consent Decree of November 2006																		
Kearny	New Jersey	Unit 7	Retire unit	01/01/07										Allowances allocated to Kearny, Hudson, and Mercer may only be used for the operational needs of those units, and all surplus allowances must be surrendered. Within 90 days of amended Consent Decree, PSEG must surrender 1,230 NO_x Allowances and 8,568 SO_2 Allowances not already allocated to or generated by the units listed here. Kearny allowances must be surrendered with the shutdown of those units.			Kearny has retired	http://www2.epa.gov/enforcement/pseg-fossil-llc-settlement
Kearny	New Jersey	Unit 8	Retire unit	01/01/07													Kearny has retired	
Hudson	New Jersey	Unit 2			Install Dry FGD (or approved alt. technology) and continually operate	0.15	12/31/10	Install SCR (or approved tech) and continually operate	0.1	12/31/10	Install Baghouse (or approved technology)	0.015	12/31/10				Hudson has retired	
						Annual Cap (tons)	Year		Annual Cap (tons)	Year								
						5,547	2007		3,486	2007								
						5,270	2008		3,486	2008								
						5,270	2009		3,486	2009								
						5,270	2010		3,486	2010								
Mercer	New Jersey	Unit 1			Install Dry FGD (or approved alt. technology) and continually operate	0.15	12/31/10	Install SCR (or approved tech) and continually operate	0.1	01/01/07	Install Baghouse (or approved technology)	0.015	12/31/10				Mercer has retired	
Mercer	New Jersey	Unit 2			Install Dry FGD (or approved alt. technology) and continually operate	0.15	12/31/10	Install SCR (or approved tech) and continually operate	0.1	01/01/07	Install Baghouse (or approved technology)	0.015	12/31/10				Mercer has retired	
Westar Energy																		

Company and Plant	State	Unit	Settlement Actions: Retire/Repower: Action	Retire/Repower: Effective Date	SO_2 control: Equipment	SO_2 control: Percent Removal or Rate	SO_2 control: Effective Date	NO_x Control: Equipment	NO_x Control: Rate	NO_x Control: Effective Date	PM or Mercury Control: Equipment	PM or Mercury Control: Rate	PM or Mercury Control: Effective Date	Allowance Retirement: Retirement	Allowance Restriction: Restriction	Effective Date	Notes	Reference
Jeffrey Energy Center	Kansas	All units			Units 1, 2, and 3 have a total annual limit of 6,600 tons of SO_2 starting 2011 Units 1, 2, and 3 must all install FGDs by 2011 and operate them continuously. FGDs must maintain a 30-Day Rolling Average Unit Removal Efficiency for SO_2 of at least 97% or a 30-Day Rolling Average Unit Emission Rate for SO_2 of no greater than 0.070 lbs/MMBtu.			Units 1-3 must continuously operate Low NO_x Combustion Systems by 2012 and achieve and maintain a 30-Day Rolling Average Unit Emission Rate for NO_x of no greater than 0.180 lbs/MMBtu. One of the three units must install an SCR by 2015 and operate it continuously to maintain a 30-Day Rolling Average Unit Emission Rate for NO_x of no greater than 0.080 lbs/MMBtu. By 2013 Westar shall elect to either (a) install a second SCR on one of the other JEC Units by 2017 or (b) meet a 0.100 lbs/MMBtu Plant-Wide 12-Month Rolling Average Emission Rate for NO_x by 2015 and achieve, maintain and comply with a Plant-Wide 12-Month Rolling Tonnage limitation for NOx at JEC of 9600 tons by 12/31/ 2014.			Units 1, 2, and 3 must operate each ESP and FGD system continuously by 2011 and maintain a 0.030 lbs/MMBtu PM Emissions Rate. Units 1 and 2's ESPs must be rebuilt by 2014 in order to meet a 0.030 lbs/MMBtu PM Emissions Rate							http://www2.epa.gov/enforcement/westar-energy-inc-settlement
Duke Energy																		
Gallagher	Indiana	Units 1 & 3	Retire or repower as natural gas	1/1/2012													Units have retired	http://www2.epa.gov/enforcement/duke-energy-gallagher-plant-clean-air-act-settlement
		Units 2 & 4			Install Dry sorbent injection technology	80%	1/1/2012										Units have retired	
American Municipal Power																		
Gorsuch Station	Ohio	Units 2 & 3	Elected to Retire Dec 15, 2010 (must retire by Dec 31, 2012)														Units have retired	http://www2.epa.gov/enforcement/american-municipal-power-clean-air-act-settlement
		Units 1 & 4																
Hoosier Energy Rural Electric Cooperative																		
					In calendar year 2016 and continuing each year thereafter, the Hoosier System, collectively, shall not exceed a System-Wide Annual SO2 Tonnage Limitation of 18,750 tons. Beginning in calendar year 2015, and continuing each calendar year thereafter, the Hoosier System, collectively, shall not exceed a System-Wide Annual NOx Tonnage Limitation of 4,800 tons.													
Ratts	Indiana	Units 1 & 2						Install & continually operate SNCRS	0.25	12/31/2011	Continuously operate ESP			Annually surrender any NO_x and SO_2 allowances that Hoosier does not need in order to meet its regulatory obligations			Ratts units retired	http://www2.epa.gov/enforcement/hoosier-energy-rural-electric-cooperative-inc-settlement
Merom	Indiana	Unit 1			Continuously run current FGD for 90% removal and update FGD for 98% removal by 2012	98%	2012	Continuously operate existing SCRs	0.12		Continuously operate ESP and achieve PM rate no greater than 0.007 by 6/1/12						Unit has Wet FGD, SCR, and ESP	

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
		Unit 2			Continuously run current FGD for 90% removal and update FGD for 98% removal by 2014	98%	2014				Continuously operate ESP and achieve PM rate no greater than 0.007 by 6/1/13						Unit has Wet FGD, SCR, and ESP	
Northern Indiana Public Service Co.																		
Bailly	Indiana	Units 7 & 8			Upgrade existing FGD	95% by 01/01/11 97% by 01/01/14 (95% if low sulfur coal only is burned)		OFA & SCR	0.15 lbs/MMBtu by 12/31/10 0.13 lbs/MMBtu by 12/31/13 0.12 lbs/MMBtu by 12/31/15			0.3 lbs/MMBtu (0.015 if a Baghouse is installed)	12/31/2010				Units have retired	http://www2.epa.gov/enforcement/northern-indiana-public-service-company-clean-air-act-settlement
Michigan City	Indiana	Unit 12			FGD	0.1 lbs/MMBtu	12/31/2018	OFA & SCR	0.14 lbs/MMBtu by 12/31/10 0.12 lbs/MMBtu by 12/31/11 0.10 lbs/MMBtu by 12/31/13			0.3 lbs/MMBtu (0.015 if a Baghouse is installed)	12/31/2018				Units have retired	
Schahfer	Indiana	Unit 14			FGD	0.08 lbs/MMBtu	12/31/2013	OFA & SCR	0.14 lbs/MMBtu by 12/31/10 0.12 lbs/MMBtu by 12/31/12 0.10 lbs/MMBtu by 12/31/14			0.3 lbs/MMBtu (0.015 if a baghouse is installed)	12/31/2013				Unit has retired	
	Indiana	Unit 15			FGD	0.08 lbs/MMBtu	12/31/2015	LNB/OFA	0.16	3/31/2011		0.3 lbs/MMBtu (0.015 if a baghouse is installed)	12/31/2015				Unit has retired	
								Either: SCR or SNCR	0.08	12/31/2015								
									0.15	12/31/2012								
	Indiana	Units 17 & 18			Upgrade existing FGD	97%	1/31/2011	LNB/OFA	0.2	3/31/2011		0.3 lbs/MMBtu (0.015 if a baghouse is installed)	12/31/2010				Unit has retired	
Dean H Mitchell	Indiana	Units 4, 5, 6, & 11	Retire	12/31/2010													Units have retired	
Tennessee Valley Authority																		
Colbert	Alabama	Units 1-4			FGD		6/30/2016	SCR		6/30/2016				Shall surrender all calendar year NO_x and SO_2 Allowances allocated to TVA that are not needed for compliance with its own CAA reqts. Allocated allowances may be used for TVA's own compliance with CAA reqts.	Shall not use NO_x or SO_2 Allowances to comply with any requirement of the Consent Decree, Nothing prevents TVA from purchasing or otherwise obtaining NO_x and SO_2 allowances from other sources for its compliance with CAA reqts. TVA may sell, bank, use, trade, or transfer any NO_x and SO_2 Super-Compliance" Allowances resulting from meeting System-wide limits. Except	2011	Units have retired	https://www.epa.gov/enforcement/tennessee-valley-authority-clean-air-act-settlement
		Unit 5			FGD		12/31/15	SCR		Effective Date							Unit has retired	
Widows Creek	Alabama	Units 1 - 6	Retire 2 units 7/31/13 Retire 2 units 7/31/14 Retire 2 units 7/31/15														Units have retired	
		Unit 7			Continuously operate FGD			SCR		Effective Date							Unit has retired	
		Unit 8			Continuously operate FGD			SCR		Effective Date							Unit has retired	
Paradise	Kentucky	Units 1 & 2			Upgrade FGD	93%	12/31/12	SCR		Effective Date							Units have retired	
		Unit 3			Wet FGD		Effective Date	SCR		Effective Date							Unit has retired	
Shawnee	Kentucky	Units 1 & 4			FGD	1.2	12/31/17	SCR		12/31/17							Units installed Dry FGD and SCR	
		Units 5 - 10				1.2	Effective Date											

Company and Plant	State	Unit	Retire/Repower: Action	Retire/Repower: Effective Date	SO_2 control: Equipment	SO_2 control: Percent Removal or Rate	SO_2 control: Effective Date	NO_x Control: Equipment	NO_x Control: Rate	NO_x Control: Effective Date	PM or Mercury Control: Equipment	PM or Mercury Control: Rate	PM or Mercury Control: Effective Date	Allowance Retirement: Retirement	Allowance Restriction: Restriction	Effective Date	Notes	Reference
Allen	Tennessee	Units 1 - 3			FGD		12/31/18	Continuously operate SCR				0.03 PM Emissions Rate	12/31/18		that reductions used to support new CC/CT will not be Super Allowances in that year and thereafter.		Units have retired	
Bull Run	Tennessee	Unit 1			Wet FGD		Effective Date	Continuously operate SCR				0.03 PM Emissions Rate	Effective Date				Unit has retired	
Cumberland	Tennessee	Units 1 & 2			Wet FGD		Effective Date	Continuously operate SCR									Unit 1 installed Wet FGD and SCR Unit 2 retired	
Gallatin	Tennessee	Units 1 - 4			FGD		12/31/17	SCR		12/31/17		0.03 PM Emissions Rate	12/31/17				Gallatin units installed Dry FGD and SCR	
John Sevier	Tennessee	Units 1 & 2	Retire 2 Units 12/31/12 and 12/31/15														Units have retired	
		Units 3 & 4			FGD		12/31/15	SCR		12/31/15							Units have retired	
Johnsonville	Tennessee	Units 1 - 10	Retire 6 Units 12/31/15 Retire 4 Units 12/31/17														Units have retired	
Kingston	Tennessee	Units 1 - 9			FGD		Effective Date	SCR		Effective Date		0.03 PM Emissions Rate	Effective Date				Units have retired	
Wisconsin Public Service																		
					System-Wide Annual Tonnage Limitations for SO_2 is 4,250 tons in 2017 and thereafter			System-Wide Annual Tonnage Limitations for NO_x is 3,700 tons in 2017 and thereafter										
Pulliam	Wisconsin	Units 5-6	Retired	6/1/2015		0.750 lbs/MMBtu	1/1/2013 until retirement										Units have retired	http://www2.epa.gov/enforcement/wisconsin-public-service-corporation-settlement
	Wisconsin	Units 7-8				0.750 lbs/MMBtu & plant-wide cap of 2100 tons starting 2016	1/1/2013		0.250 lbs/MMBtu & plant-wide cap of 1500 tons starting 2016	12/31/12							Units have retired	
Weston	Wisconsin	Unit 1	Retired			0.750 lbs/MMBtu	1/1/2013 until retirement		0.250 lbs/MMBtu	12/31/2012 until retirement							Unit has retired	
	Wisconsin	Units 2	Repower as natural gas	6/1/2015		0.750 lbs/MMBtu	1/1/2013 until retirement		0.280 lbs/MMBtu	12/31/2012 until retirement							Unit has retired	
	Wisconsin	Units 3			ReACT by 12/31/2016	0.750 lbs/MMBtu until 2016 0.080 lbs/MMBtu 2016 onwards	12/31/16	ReACT by 12/31/2016	0.130 lbs/MMBtu until 2016 0.100 lbs/MMBtu 2016 onwards	12/31/16							Unit installed ReACT	
	Wisconsin	Units 4			Continuously Operate the existing DFGD & burn only Powder River Basin Coal	0.080 lbs/MMBtu	2/31/2013	Continuously Operate the existing SCR	0.060 lbs/MMBtu	2/31/2013							Unit installed Dry FGD and SCR	
Louisiana Generating LLC																		
			Plant-Wide Annual Tonnage Limitations for SO_2 is 18,950 tons in 2016 and thereafter					Plant-Wide Annual Tonnage Limitations for NO_x is 8,950 tons in 2015 and thereafter										

Company and Plant	State	Unit	Settlement Actions: Retire/Repower: Action	Effective Date	SO_2 control: Equipment	Percent Removal or Rate	Effective Date	NO_x Control: Equipment	Rate	Effective Date	PM or Mercury Control: Equipment	Rate	Effective Date	Allowance Retirement: Retirement	Allowance Restriction: Restriction	Effective Date	Notes	Reference
Big Cajun 2	Louisiana	Unit 1	Retirement, Refueling, Repowering, or Retrofit	04/01/25	install and Continuously Operate DSI — install and Continuously Operate Dry FGD	0.380 lbs/MMBtu [2015] — 0.070 lbs/MMBtu	4/15/2015 [DSI] — 4/1/2025 [DFGD]	install and Continuously Operate SNCR	0.150 lbs/MMBtu	05/01/14	Continuously Operate each ESP	PM Rate no greater than 0.030 lbs/MMBtu	04/15/15				Unit 1 installed DSI, SNCR, and ESP. Also, Unit 1 is forced to repower to gas or retire in 2025. Unit 2 converted to NG and installed SNCR. Unit 3 installed SNCR and ESP. May trade Super-Compliant Allowances, may buy external allowances to comply. "Commencing January 1, 2013, and continuing thereafter, Settling Defendant shall burn only coal with no greater sulfur content than 0.45 percent by weight on a dry basis at Big Cajun II Units 1 and 3. "	http://www2.epa.gov/enforcement/louisiana-generating-settlement
		Unit 2	Refuel/convert to NG fired	04/15/15				install and Continuously Operate SNCR	0.150 lbs/MMBtu	05/01/14								
		Unit 3						install and Continuously Operate SNCR	0.135 lbs/MMBtu	05/01/14	Continuously Operate each ESP	PM Rate no greater than 0.030 lbs/MMBtu	04/15/15					
Dairyland Power Cooperative																		
Dairyland Power Cooperative shall not exceed an Annual System-wide Tonnage Limitation of 6817 tons of NO_x in calendar years 2016, 3748 tons 2017-2019, and 3236 tons in 2020 and thereafter; and an Annual System-wide Tonnage Limitation of 6073 tons of SO_2 in 2016, 6057 tons 2017-2019 and 4578 tons in 2020 and thereafter.																		
Alma	Wisconsin	Unit 1	Cease Burning Coal	06/30/12													Unit has retired	http://www2.epa.gov/enforcement/dairyland-power-cooperative-settlement
		Unit 2	Cease Burning Coal	06/30/12													Unit has retired	
		Unit 3	Cease Burning Coal	06/30/12													Unit has retired	
		Unit 4	**Option 2**: Retrofit and Regulate both units more stringently	12/31/14	Install and continuously operate DFGD or DSI at Alma 4	1.00 lbs/MMBtu at Alma 4 And a joint cap of 3,737 tons until 2019, and 2,242 tons thereafter. In the event that one retires, Tonnage Cap of 2,136 tons for the remaining unit until 2019 and 1,282 tons thereafter	12/31/2014	Continuously Operate the existing Low NO_x Combustion System (including OFA) and SNCR	0.350 lbs/MMBtu — Joint cap of 1308 tons for-until 2019, and 785 tons thereafter. In the event that one retires, Tonnage Cap of 746 tons for remaining unit until 2019 and 449 tons thereafter	8/1/2012 — 12/31/2014	Continuously Operate an ESP or FF on Alma Unit 4	0.030 lbs/MMBtu [with ESP] 0.015 lbs/MMBtu [with FF] at Alma 4. Joint cap of 112 tons until 2019, and 67 tons thereafter. In the event that one retires, Tonnage Cap of 64 tons for the remaining unit until 2019 and 39 tons thereafter	12/31/14				Units 4 and 5 have retired.	
		Unit 5																
J.P. Madgett	Wisconsin	Unit 1			Install and continuously operate DFGD	0.090 lbs/MMBtu	12/31/14	Continuously Operate existing Low NO_x Combustion System — Install an SCR	0.30 lbs/MMBtu — 0.080 lbs/MMBtu	8/1/2012 — 6/30/2016	Continuously Operate the existing Baghouse	PM Rate no greater than 0.0150 lbs/MMBtu	07/01/13				Unit installed SCR, and Baghouse	

Company and Plant	State	Unit	Settlement Actions: Retire/Repower: Action	Retire/Repower: Effective Date	SO_2 control: Equipment	SO_2 control: Percent Removal or Rate	SO_2 control: Effective Date	NO_x Control: Equipment	NO_x Control: Rate	NO_x Control: Effective Date	PM or Mercury Control: Equipment	PM or Mercury Control: Rate	PM or Mercury Control: Effective Date	Allowance Retirement: Retirement	Allowance Restriction: Restriction	Effective Date	Notes	Reference
Genoa	Wisconsin	Unit 1			Continuously Operate the FGD	0.090 lbs/MMBtu	12/31/12	Continuously Operate existing Low NO_x Combustion System including OFA — Install an SNCR	0.14 lbs/MMBtu — Annual Tonnage Cap of 1,140 tons	12/31/2014 — 6/1/2015	Continuously Operate the existing Baghouse	PM Rate no greater than 0.0150 lbs/MMBtu	07/01/13				Unit has retired	
Dominion Energy, Inc.																		
			In calendar year 2014, and in each calendar year thereafter, Kincaid shall not exceed a Plant-Wide Annual Tonnage Limitation of 3,500 tons of NO_x & 4,400 tons of SO_2, and Brayton Point shall not exceed a Plant-Wide Annual Tonnage Limitation of 4,600 tons of NO_x & 4,100 tons of SO_2.															
Brayton Point	Massachusetts	Unit 1			Continuously Operate the existing dry FGD	0.150 lbs/MMBtu	06/01/13	Continuously Operate the SCR, OFA, and LNB	0.080 lbs/MMBtu	05/01/13	Install/Continuously Operate a Baghouse	0.015 lbs/MMBtu [PM by 2013] 0.01 lbs/MMBtu [PM post-2013]	06/01/13				Brayton Point retired in June 2017 and surrendered its permits to operate.	http://www2.epa.gov/enforcement/dominion-energy-inc
		Unit 2						Continuously Operate the LNB and OFA	0.280 lbs/MMBtu	05/02/13								
		Unit 3			Continuously Operate dry FGD	0.080 lbs/MMBtu	07/01/13	Continuously Operate the SCR, OFA, and LNB	0.080 lbs/MMBtu	05/01/13	Install/Continuously Operate a Baghouse	0.015 lbs/MMBtu [PM by 2013] 0.01 lbs/MMBtu [PM post-2013]	07/01/13					
Kincaid Power Station	Illinois	Unit 1			Continuously Operate DSI	0.100 lbs/MMBtu	01/01/14	Continuously Operate each SCR and OFA	0.080 lbs/MMBtu	05/01/13	Continuously Operate the ESP	0.030 lbs/MMBtu [PM by 2013] 0.015 lbs/MMBtu [PM by post-2013]	06/01/13				Unit has retired	
		Unit 2															Unit has retired	
State Line Power Station	Indiana	Unit 3	Retire	06/01/12													Unit has retired	
		Unit 4															Unit has retired	
Wisconsin Power and Light																		
					Edgewater 3-5- shall not exceed an Annual Tonnage Limitation of 2,500 tons of NO_x in calendar years 2016-2018, and 1100 tons 2019 onwards & an Annual Tonnage Limitation of 12,500 tons of SO_2 in 2016, 6000 tons 2017-2018 and 1100 tons 2019 onwards. Columbia 1 & 2 shall not exceed an Annual Tonnage Limitation of 5,600 tons of NO_x in calendar years 2016-2018, and 4300 tons 2019 onwards & an Annual Tonnage Limitation of 3290 tons of SO_2 in 2016 and thereafter.													
Edgewater Generating Station	Wisconsin	Unit 3	Retired	12/31/15		Unit-Specific Annual Tonnage Cap of 700 Tons of SO_2	05/21/13		Unit-Specific Annual Tonnage Cap of 250 tons of NO_x	05/21/13							Unit has retired	http://www2.epa.gov/enforcement/wisconsin-power-and-light-et-al-settlement
		Unit 4	Retire, Refuel, or Repower	12/31/18		0.700 lbs/MMBtu	05/21/13	Operate SNCR and LNB	0.150 lbs/MMBtu	01/01/14	Continuous Operation of the existing ESP	0.030 lbs/MMBtu	12/31/13				Unit has retired.	
		Unit 5			Install and continuously operate DFGD	0.075 lbs/MMBtu	12/31/16	Install and continuously operate SCR	0.070 lbs/MMBtu	05/01/13	Install and continuously operate Fabric Filter	0.015 lbs/MMBtu	12/31/16				Unit has retired	

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
Columbia Generating Station	Wisconsin	Unit 1			Install and continuously operate DFGD	0.075 lbs/MMBtu	01/01/15	Operation of the Low NO_x Combustion System	0.150 lbs/MMBtu	07/21/13	Install and continuously operate Fabric Filter	0.015 lbs/MMBtu	12/31/14				Unit has retired	
		Unit 2				0.075 lbs/MMBtu		Operation of the Low NO_x Combustion System — Install and continuously operate SCR	0.150 lbs/MMBtu — 0.070 lbs/MMBtu	7/21/2013 — 12/31/2018		0.015 lbs/MMBtu	12/31/14				Unit has retired	
Nelson Dewey Generating Station	Wisconsin	Unit 1	Retire, Refuel, or Repower	12/31/15	commence burning 100% Powder River Basin or equivalent fuel containing ≤ 1.00 lbs/MMBtu of SO_2	0.800 lbs/MMBtu	05/22/13		0.300 lbs/MMBtu	04/22/13		0.100 lbs/ MMBtu	04/22/13				Cease burning pet coke and commence burning 100% PRB coal or equivalent at Nelson Dewey Units 1 and 2. Units have retired.	
		Unit 2	Retire, Refuel, or Repower	12/31/15														
Minnesota Power																		
Boswell	Minnesota	Unit 1	Retire/Repower	12/31/18	FGD	0.70 lbs/MMBtu and 0.03 lb/MMBtu after 12/31/18	07/16/14	Continuously Operate the ROFA and SNCR	0.20 lbs/MMBtu	6/30/2014	Continuously Operate Baghouses	PM Rate no greater than 0.015 lb/MMBtu	07/16/14				Unit has retired	http://www2.epa.gov/enforcement/minnesota-power-settlement
	Minnesota	Unit 2	Retire/Repower	12/31/18	FGD	0.70 lbs/MMBtu and 0.03 lb/MMBtu after 12/31/18	07/16/14	Continuously Operate the ROFA and SNCR	0.20 lbs/MMBtu	6/30/2014	Continuously Operate Baghouses	PM Rate no greater than 0.015 lb/MMBtu	07/16/14				Unit has retired	
	Minnesota	Unit 3			FGD	0.030 lbs/MMBtu	12/31/18	Continuously Operate the Low NO_x Burners, OFA system and SCR control	0.060 lbs/MMBtu	07/16/14	Continuously Operate Baghouses	PM Rate no greater than 0.015 lb/MMBtu	07/17/14				Unit has installed Wet FGD, SCR, and Baghouse	
	Minnesota	Unit 4			FGD	0.03	05/31/16	Continuously Operate the Low NO_x Burners, OFA system and SNCR	0.120 lbs/MMBtu	07/16/14	Continuously Operate Baghouses	PM Rate no greater than 0.015 lb/MMBtu	05/31/16				Unit has installed Dry FGD, SNCR, and Baghouse	
Taconite Harbor	Minnesota	Unit 1				0.30 lbs/MMBtu	12/31/2015	Continuously Operate the ROFA systems and SNCR	0.160 lbs/MMBtu	7/16/2014	Continuously Operate ESP	PM Rate no greater than.03 lb/MMBtu	07/16/14				Taconite Harbor Energy Center units retired	
	Minnesota	Unit 2																
	Minnesota	Unit 3	Retire/Repower/Refueling	12/31/2015														
Laskin	Minnesota	Unit 1				0.200 lb/MMBtu	07/16/14	Continuously Operate the Low NO_x Burners, and OFA systems	0.190 lbs/MMBtu	07/16/14		PM Rate no greater than 0.050 lb/MMBtu	07/16/14				Units have converted to natural gas	
	Minnesota	Unit 2																
Rapids	Minnesota	Unit 5				0.150 lb/MMBtu	07/16/14		0.37 lbs/MMBtu	07/16/14	Continuously Operate ESP	PM Rate no greater than 0.03 lb/MMBtu	07/16/14				Unit has converted to natural gas	
	Minnesota	Unit 6				0.150 lb/MMBtu	07/16/14		0.37 lbs/MMBtu	07/16/14	Continuously Operate ESP	PM Rate no greater	07/16/14				Unit has converted to natural gas	

			Settlement Actions														Notes	Reference
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
Company and Plant	State	Unit	Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date	Notes	Reference
												than 0.03 lb/MMBtu						
Consumer Energy																		
Campbell	Michigan	Unit 1			install and continuously operate DSI	0.350 lb/MMBtu 30-Day Rolling Average ------- 0.290 lb/MMBtu 90- Day Rolling Average	6/30/2016 ------- 12/27/2016	Continuously Operate the Low NO_x Combustion System (including OFA)	0.220 lb/MMBtu 90-Day Rolling Average	11/4/2014	Install and continuously operate Baghouse	.015 lb/MMBtu	04/01/16				Unit has retired	https://www.epa.gov/enforcement/consumers-energy-clean-air-act-settlement
Campbell	Michigan	Unit 2			install and continuously operate DSI	0.32 lb/MMBtu	6/30/2017	Continuously Operate an SCR	0.080 lb/MMBtu 90-Day Rolling Average	5/3/2015	Install and continuously operate Baghouse	0.015 lb/MMBtu	2/6/2015				Unit has retired	
Campbell	Michigan	Unit 3			install and continuously operate FGD	0.085 lb/MMBtu 30-Day Rolling Average -------- 0.07 lb/MMBtu 365- Day Rolling Average	3/1/2017 -------- 12/31/2017	Continuously Operate an SCR	0.080 lb/MMBtu 90-Day Rolling Average	2/6/2015	Install and continuously operate Baghouse	0.015 lb/MMBtu	12/31/16				Unit has retired	
Cobb	Michigan	Unit 7	Retire	04/15/16													Unit has retired	
Cobb	Michigan	Unit 8	Retire	04/15/16													Unit has retired	
Karn	Michigan	Unit 1			Install and continuously operate FGD	0.075 lb/MMBtu	12/31/2015	Continuously Operate the existing SCR	0.080 lb/MMBtu	60 Operating Days after the Date of Entry	Continuously Operate the existing Baghouse	0.015 lb/MMBtu					Unit has retired	
Karn	Michigan	Unit 2			Install and continuously operate FGD	0.075 lb/MMBtu	4/15/2016	Continuously Operate the existing SCR	0.080 lb/MMBtu	60 Operating Days after the Date of Entry	Continuously Operate the existing Baghouse	0.015 lb/MMBtu					Unit has retired	
Weadock	Michigan	Unit 7	Retire	04/15/16													Unit has retired	
Weadock	Michigan	Unit 8	Retire	04/15/16													Unit has retired	
Whiting	Michigan	Unit 1	Retire	04/15/16													Unit has retired	
Whiting	Michigan	Unit 2	Retire	04/15/16													Unit has retired	
Whiting	Michigan	Unit 3	Retire	04/15/16													Unit has retired	
Interstate Power and Light																		
For each calendar year as specified below, Defendant shall not exceed the corresponding Prairie Creek Annual Tonnage Limitation for SO_2 specified below: Each calendar year from 2016 through 2018: 5,500 tons per year Each calendar year from 2019 to 2020: 3,500 tons per year Each calendar year from 2021 through 2025: 3,000 tons per year 2026 and continuing each calendar year thereafter: 100 tons per year																		
For each calendar year as specified below, Defendant's System shall not exceed the corresponding System-Wide Annual Tonnage Limitation for SO_2 specified below: 2015: 39,000 tons per year																		

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
2016: 23,500 tons per year Each calendar year from 2017 through 2018: 14,100 tons per year Each calendar year from 2019 through 2020: 12,000 tons per year 2021: 11,000 tons per year Each calendar year from 2022 through 2025: 6,000 tons per year 2026 and continuing each calendar year thereafter: 3,250 tons per year																		
For each calendar year as specified below, Defendant shall not exceed the corresponding Prairie Creek Annual Tonnage Limitation for NO_x specified below: Each calendar year from 2015 through 2018: 3,250 tons per year Each calendar year from 2019 through 2025: 2,650 tons per year 2026 and continuing each calendar year thereafter: 1,500 tons per year																		
For each calendar year as specified below, Defendant's System shall not exceed the corresponding System-Wide Annual Tonnage Limitation for NO_x specified below: Each calendar year from 2015 through 2017: 11,500 tons per year Each calendar year from 2018 through 2019: 10,500 tons per year 2020: 7,500 tons per year 2021: 7,250 tons per year 2022 and continuing each calendar year thereafter: 6,800 tons per year																		
Lansing	Iowa	Unit 1	Retire	2016													Lansing units have retired	https://www.epa.gov/sites/production/files/2015-07/documents/interstatepowerandlight-cd.pdf
	Iowa	Unit 2	Retire	2016														
	Iowa	Unit 3	Retire	2016														
	Iowa	Unit 4			Continuous Operation of a DFGD	0.075 lb/MMBtu	12/31/2016	Continuously Operate the existing SCR	0.090 lb/MMBtu — 0.080 lb/MMBtu	01/31/2015 — 12/30/2015	Continuous Operation of a Baghouse	PM Rate no greater than 0.015 lb/MMBtu	12/31/2016					
Ottumwa	Iowa	Unit 1			Continuous Operation of a DFGD	0.075 lb/MMBtu	12/31/2015	Install an SCR	0.160 lb/MMBtu — 0.080 lb/MMBtu	09/15/2015 — 12/31/2019	Continuous Operation of a Baghouse	PM Rate no greater than 0.015 lb/MMBtu	12/31/2015				Unit has installed Dry FGD, SCR, and Baghouse	
Milton L Kapp	Iowa	Unit 1	Retire	2016													Units have retired	
	Iowa	Unit 2	Retire or Refuel	08/31/2015		0.750 lb/MMBtu	09/15/2015		0.150 lb/MMBtu	09/15/2015								
Sutherland	Iowa	Unit 1	Retire or Repower	06/01/2019													Sutherland units have retired	
	Iowa	Unit 2	Retire	2016														
	Iowa	Unit 3	Retire or Repower	06/01/2019														
Sixth Street	Iowa	Unit 1-5	Retire	2016													Units have retired	
Dubuque	Iowa	Unit 1	Retire or Repower	06/01/2019													Dubuque units retired	
	Iowa	Unit 5	Refuel	07/15/2015														
	Iowa	Unit 6	Retire or Repower	06/01/2019														
Burlington	Iowa	Unit 1	Retire or Refuel	12/31/2021		0.750 lb/MMBtu	09/15/2015		0.180 lb/MMBtu	09/15/2015	Continuously Operate the ESP	PM Rate no greater than 0.030 lb/MMBtu	01/15/2016				Unit converted to natural gas	
Prairie Creek	Iowa	Unit 1	Retire or Refuel	12/31/2025		0.900 lb/MMBtu (Unit 1 and Unit 2 combined)	09/15/2015		0.600 lb/MMBtu	09/15/2015	Continuously Operate the ESP	PM Rate no greater than 0.030 lb/MMBtu (Unit 1 and Unit 2 combined)	10/15/2015				Unit 1-3 installed ESPC. Unit 4 has converted to natural gas.	
	Iowa	Unit 2	Retire or Refuel	12/31/2025					0.600 lb/MMBtu	09/15/2015	Continuously Operate the ESP							

Company and Plant	State	Unit	Settlement Actions														Notes	Reference
			Retire/Repower		SO_2 control			NO_x Control			PM or Mercury Control			Allowance Retirement	Allowance Restriction			
			Action	Effective Date	Equipment	Percent Removal or Rate	Effective Date	Equipment	Rate	Effective Date	Equipment	Rate	Effective Date	Retirement	Restriction	Effective Date		
	Iowa	Unit 3	Retire or Refuel	12/31/2025		0.700 lb/MMBtu	09/15/2015		0.400 lb/MMBtu	09/15/2015	Continuously Operate the ESP	PM Rate no greater than 0.030 lb/MMBtu	10/15/2015					
	Iowa	Unit 4	Retire or Refuel	06/01/2018		0.700 lb/MMBtu	09/15/2015		0.400 lb/MMBtu	09/15/2015	Continuously Operate the ESP	PM Rate no greater than 0.030 lb/MMBtu	10/15/2015					
Duke Energy																		
Buck	North Carolina	Unit 3	Retire	09/2015											Except as provided in this Consent Decree, beginning in calendar year 2016 and continuing each calendar year thereafter, Defendant shall not sell, bank, trade, or transfer its interest in any NO_x or SO Allowances allocated to Allen Unit 1, Allen Unit 2, Buck Unit 3, Buck Unit 4, Buck Unit 5, Cliffside Unit 1, Cliffside Unit 2, Cliffside Unit 3, Cliffside Unit 4, Dan River Unit 3, Riverbend Unit 4, Riverbend Unit 6, and Riverbend Unit 7. Beginning in calendar year 2016, and continuing each calendar year thereafter, Defendant shall Surrender all NO_x and SO_2 Allowances allocated to Allen Unit 1, Allen Unit 2, Buck Unit 3, Buck Unit 4, Buck Unit 5, Cliffside Unit 1, Cliffside Unit 2, Cliffside Unit 3, Cliffside Unit 4, Dan River Unit 3, Riverbend Unit 4, Riverbend Unit 6, and Riverbend Unit 7 for that calendar year that Defendant does not need to meet federal and/or state CAA regulatory requirements for those Units.		Unit has retired	https://www.epa.gov/sites/production/files/2015-09/documents/duke-energy-consent-decree-civil-action-1cv1262_0.pdf
	North Carolina	Unit 4	Retire	09/2015													Unit has retired	
	North Carolina	Unit 5	Retire	09/2015													Unit has retired	
Cliffside	North Carolina	Unit 1	Retire	09/2015													Unit has retired	
	North Carolina	Unit 2	Retire	09/2015													Unit has retired	
	North Carolina	Unit 3	Retire	09/2015													Unit has retired	
	North Carolina	Unit 4	Retire	09/2015													Unit has retired	
Dan River	North Carolina	Unit 3	Retire	09/2015													Unit has retired	
Riverbend	North Carolina	Unit 4	Retire	09/2015													Unit has retired	
	North Carolina	Unit 6	Retire	09/2015													Unit has retired	
	North Carolina	Unit 7	Retire	09/2015													Unit has retired	
Allen	North Carolina	Unit 1	Retire	12/31/2023	Continuously Operate the existing FGD	0.120 lb/MMBtu	01/2017	Continuously Operate the existing SNCR	0.250 lb/MMBtu — 600 tons per year	01/2017 — 2016							Unit has retired	
	North Carolina	Unit 2	Retire	12/31/2021	Continuously Operate the existing FGD	0.120 lb/MMBtu	01/2017	Continuously Operate the existing SNCR	0.250 lb/MMBtu — 600 tons per year	01/2017 — 2016							Unit has retired	
	North Carolina	Unit 3	Retire	3/31/2021													Unit has retired DEC Integrated Resource Plan (2022) Update, 03/10/23, Table 7-L: Planning Unit Retirements DEC Integrated Resource Plan (2022), 03/10/23.	
	North Carolina	Unit 4	Retire	12/31/2021													Unit has retired	
	North Carolina	Unit 5	Retire	12/31/2023													Unit has retired	
Arizona Public Service Company																		
Four Corners	New Mexico	Unit 4 & 5			Continuously Operate the existing FGD	6800 tons per year	2019	Continuously Operate the SCR	0.080 lb/MMBtu --------- 4968 tpy	2019							Unit has Wet FGD and SCR. https://www.epa.gov/sites/production/files/2015-06/documents/fourcorners-cd.pdf	

Company and Plant	State	Unit	Settlement Actions: Retire/Repower: Action	Retire/Repower: Effective Date	SO$_2$ control: Equipment	SO$_2$ control: Percent Removal or Rate	SO$_2$ control: Effective Date	NO$_x$ Control: Equipment	NO$_x$ Control: Rate	NO$_x$ Control: Effective Date	PM or Mercury Control: Equipment	PM or Mercury Control: Rate	PM or Mercury Control: Effective Date	Allowance Retirement: Retirement	Allowance Restriction: Restriction	Effective Date	Notes	Reference
Deseret Generation and Transmission Cooperative																		
Bonanza Power Plant	Utah	Unit 1						LNB/OFA	.28 lbs/MMBTU 5,700 tpy 3000 tpy	2016 2030					Jan 2020 onward, coal consumption cap of 20,000,000 short tons of coal, void if SCR installed.		Unit has LNB + OFA	https://yosemite.epa.gov/oa/eab_web_docket.nsf/Attachments By ParentFilingId/95EC07864CBF910A85257F330054FE38/$FILE/Deseret Final Settlement Agreement_12 23 2015.pdf