

ILLINOIS POLLUTION CONTROL BOARD

RECEIVED
CLERK'S OFFICE
OCT 03 2000

IN THE MATTER OF:)
)
NATURAL GAS-FIRED, PEAK-LOAD)
ELECTRICAL POWER GENERATING)
FACILITIES (PEAKER PLANTS))

R01-10
P.C.# 8

STATE OF ILLINOIS
Pollution Control Board

RESPONSE TO QUESTIONS OF CHARLES E. FISHER

1. What is the schedule for Illinois nuclear power plants to be permanently shut down?

Unit License Expiration Date

ComEd:

Zion 1	Closed
Zion 2	Closed
Dresden 1	Closed
Dresden 2	2009
Dresden 3	2011
Quad Cities1	2011
Quad Cities2	2012
LaSalle 1	2022
LaSalle2	2023
Byron 1	2024
Byron 2	2026
Braidwood 1	2026
Braidwood 2	2027

Amergen:

Clinton 2026

2. What is the amount of energy imported into and exported from Illinois?

Since the Federal Energy Regulatory Commission allowed open access (deregulation) in the interstate electric transmission system, many new players, referred to as power marketers and independent power producers, have entered the wholesale market. This, as well as other issues, makes the question, "What amount of energy is imported and exported from Illinois?" very difficult to answer.

For example, ComEd's total sales in 1999 were about 110 million megawatt hours. ComEd purchased about 11 million, or 10% of that amount, from other utilities and power marketers. About 1 million of that was from Illinois utilities. ComEd sold about 19 million megawatt hours, or 17%, to other utilities and power marketers. About 1 million megawatt hours were sold to Illinois utilities. ComEd sold the rest to power marketers or out-of-state utilities.

Where the consumer of ComEd-generated electricity is located is very difficult to track. It is possible the power marketer resold the power to another Illinois utility or to retail customers directly. Similarly, the out-of-state utility might resell the power in Illinois, or to another state. Exact tracking of these transactions is not possible through Commerce Commission records.

3. What is the statutory cite of the electric choice law referred to in Executive Director Fisher's testimony?

Effective December 16, 1997, Public Act 90-561 added new Article XVI, entitled the "Electric Service Customer Choice and Rate Relief Law of 1997," to the Public Utilities Act. Article XVI, as subsequently amended, may be found at 220 ILCS 5/16-101 through 16-130.

4. What are the siting requirements in other states?

Some states, mostly those that have enacted restructuring laws, have established Siting Divisions or Siting Committees which are either separate from the state PUC or a branch of the state PUC. States like California, New York and Ohio, which have enacted electric restructuring laws, have Siting Divisions or Siting Committees which determine where Peakers can be sited. States like Wisconsin, which has not enacted electric restructuring laws, require traditional certificates of convenience and necessity for Peakers. States like Kentucky, which also has not enacted electric restructuring laws, does not require any pre-approval, other than Kentucky EPA permitting and local zoning decisions prior to the siting of a Peaker. Texas, which has enacted electric restructuring laws, has a system similar to Illinois's current system, where local zoning boards and the state EPA are the only regulatory bodies which control siting and permitting, respectively.

- **California Public Utilities Commission:** California requires any electric generating facility, including a Peaker, that is 50MW or larger to receive certification from the Energy Facilities Siting and Environmental Protection Division ("Siting Division"). Approximately 15 proposals for Peakers are currently pending at the Siting Division. The Siting Division, instead of adopting standards, makes its decision on a case by case basis through comprehensive review. Environmental issues are considered and all certifications for Peakers are open to the public. The Siting Division also oversees construction and operation of the Peakers.

- **Indiana Utility Regulatory Commission ("IURC"):** Indiana requires its public utilities to obtain a certificate of necessity prior to constructing electric generating facilities, including Peakers. The IURC has held that IPPs in Indiana are public utilities and requires that IPPs obtain construction permits from the IURC. Peakers must also obtain air emission permits and water use permits.

Although there recently was some public outcry for a moratorium on the construction of Peakers, no such moratorium is in effect. A summer study committee entitled the Regulatory Flexibility Committee ("RFC"), comprised of members from the Indiana House of Representatives' and the Indiana Senate's Commerce Committee, has been appointed to study the issue of Peaker siting. The RFC is scheduled to meet in mid October 2000.

- **Kentucky Public Service Commission ("KPSC"):** Although a number of Peakers are close to being built in Kentucky, the KPSC has determined that prior approval is not required for a Peaker as long as the Peaker sells the electricity it generates wholesale on the market.

- **New York State Public Service Commission:** New York requires that any plant, including Peakers, which generates more than 80W must be certified by the New York State Electric Siting Board, also known as the Article X Siting Board. Proceedings are open to the public and consider but can preempt local zoning.
- **Public Utilities Commission of Ohio ("PUCO"):** Ohio requires that any plant, including Peakers, must be certified by the Power Siting Board if it generates more than 50MW. Peakers will undergo an evaluation process and the Power Siting Board will make its decision on a case by case basis. No additional emission or noise requirements are necessary other than those required by the Ohio EPA.
- **Public Utility Commission of Texas:** Although Texas is projected to install 20,000MW of combined-cycle gas turbines in the near future, Texas does not have a siting commission for power plant projects. Instead, Texas has a model similar to Illinois's current model where the state EPA and local zoning boards determine whether power plant projects can go forward, and where they can be placed. Texas issues certificates of convenience and necessity, but only for power plant projects initiated by utilities, and not initiated by IPPs.
- **Wisconsin Public Service Commission ("WPSC"):** All electric generating facilities, including Peakers, which provide more than 100 MW or greater must receive a certificate of public convenience and necessity, an environmental impact statement ("EIS") must be prepared by the electric provider, hearings are set, and the commission must then either approve or deny.

I am also providing for the record a U.S. Environmental Protection Agency public document entitled "National Combustion Turbine Projects" (attached).

National Combustion Turbine Projects

Last Updated 10/03/2000

State	Permit Date	Facility	# of CTs	# of DB	Turbine Model	Fuel	Mode	Hours	NOx Limit	Control Method	Avg. Time	CO Limit	Control Method	Avg. Time	Comments
REGION 1															
CT	Draft Permit 11/97	Bridgeport Energy (520 MW total)	2		SW V84.3A	NG; FO	CC	8,760; 720 FO	6.0 ppm NG; 42 ppm FO	SCR		10 ppm	GCP	1-hr	
CT	Draft Permit 12/98	PDC-EL Paso Milford LLC (540 MW total)	2		ABB GT-24	NG; FO	CC	8,760; 720 FO	2.0 ppm NG; 9 ppm FO	SCR	3-hr	2.0ppm	CatOx	1-hr	
CT	Draft Permit 6/99	Lake Road Generating (792 MW total)	3		ABB GT-24	NG; FO	CC	8,760; 720 FO	2.0 ppm NG; 9 ppm FO	SCR	3-hr	3.0ppm	CatOx	1-hr	
MA	draft permit 7/97	Berkshire Power (272 MW total)	1		ABB GT24	NG; FO	CC	8,760; 720 FO	3.5 ppm NG/ 9 ppm FO	SCR		4 ppm	CatOx		
MA	draft permit 10/97	Dighton Power (170 MW total)	1		ABB GT 11N2	NG	CC	8,760	3.5 ppm	SCR		4 ppm	CatOx		
MA	draft permit 2/98	Millennium Power (360 MW total)	1		SW 501G	NG; FO	CC	8,760; 720 FO	3.5 ppm NG/ 9 ppm FO	SCR		4 ppm	CatOx	1-hr	
MA	draft permit 7/99	ANP Bellingham (580 MW total)	2		ABB GT-24	NG	CC	8,760	2.0 ppm	SCR	1-hr	3 ppm	CatOx	1-hr	NOx 3.5 ppm/ Steam Augmentation
MA	draft permit 3/99	ANP Blackstone (580 MW total)	2		ABB GT-24	NG	CC	8,760	2.0 ppm	SCR	1-hr	3 ppm	CatOx	1-hr	NOx 3.5ppm/ Steam Augmentation
MA	final 1/00	Sithe Mystic Development (1550 MW total)	4		Mitsubishi 501G	NG	CC	8,760	2.0 ppm	SCR	1-hr	2 ppm	CatOx	1-hr	Netted out of PSD/NSR for NOx & SO2
MA	draft permit 12/99	Cabot Power (350 MW total)	1		SW 501G	NG	CC	8,760	2.0 ppm	SCR	1-hr	2 ppm	CatOx	1-hr	
ME	draft 2/98	Androscoggin Energy LLC (150 MW total)	3		SW 251B 12A	NG; FO	Cogen	8,760; 720 FO	9 ppm/42 ppm	SCR	1-hr	5-10ppm	GCP		
ME	draft 3/98	Rumford Power Associates (265 MW total)	1			NG; FO	CC	8,760; 720 FO	3.5ppm	SCR	24-hr	15 ppm	GCP	24-hr	
ME	draft 5/98	Casco Bay Energy Co. (520 MW total)	2			NG	CC	8,760	3.5ppm	GCP	24-hr	20 ppm	GCP	24-hr	PSD Review only

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ME	draft 9/98	Champion International (250 MW total)	1			NG; FO	CC	8,760; 720 FO	9 ppm/42 ppm	GCP	24-hr	9 ppm	GCP	24-hr	Netted out of PSD/NSR review, SCR required if 9 ppm not achievable
ME	draft 10/98	Westbrook Power (528 MW total)	2		GE 7FA	NG; FO	CC	8,760; 720 FO	3.5ppm	SCR	24-hr	15 ppm	GCP	24-hr	
ME	draft 11/98	Gorham Energy (500 MW total)	3		ABB GT-24	NG; FO	CC	8,760; 720 FO	2.5 ppm NG; 9 ppm FO	SCR	24-hr	5 ppm	CatOx	24-hr	3.5ppm NOx Steam injection
NH	Final 4/99	Newington Energy (525 MW total)	2		GE 7FA	NG; FO	CC	8,760; 720 FO	2.5 ppm	SCR	3-hr	15 ppm	GCP	1-hr	
NH	Final 4/99	AES Londonderry LLC (720 MW total)	2		SW 501G	NG; FO	CC	8,760; 720 FO	2.5 ppm NG; 9 ppm FO	SCR	3-hr	15 ppm	GCP	1-hr	Steam injection allowed at 2.5ppm
RI	DRAFT 11/97	Tiverton Power Associates (265 MW total)	1		GE 7FA	NG	CC	8,760	3.5 ppm	SCR	1-hr	20 ppm	GCP	1-hr	
RI	DRAFT 1/00	Reliant Energy: Hope Generating Facility (522 MW total)	2		SW 501F	NG	CC	8,760	2.5 ppm	SCR	1-hr	15 ppm	GCP	1-hr	Advised NOx LAER at 2.0ppm (1 hour)
REGION 2															
NY		Athens Generating Co.			1080MW	NG; FO									Certificate decision in June. Final PSD and 201 permits out by end of May.
NY		Bethlehem Energy Center			750MW	NG									Response to stack height inter. TOA2 in 8/5/99. Our comments out 9/28/99.
NY		NYPA Poletti			500 MW	NG; FO									EPA monitoring waiver approval 12/28/99. Protocol comments out 12/10/99
NY		Sithe Energy - Torne Valley			827MW	NG									PSD application in 3/28/00. Article X application
NY		TwinTier Power (Summit Energy)			520MW	NG									EPA waiver approval middle of May. Revised protocol O.K., contingencies: 12/13/99.
NY		Sunset Energy Fleet			520 MW	NG; FO									Protocol O.K. 3/20/00. Inventory approval in progress.
NY		Amr. Nat. Power Ramapo Energy			1100 MW	NG									Monitoring waiver approved on 12/28/99. Protocol approved 3/21/00.

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NY		Sithe Energy Heritage Station			800MW	NG									Application in 2/23/00; in compliance/complete on 4/21/00.
NY		Southern Energy at Bowline			750MW	NG; FO									Application in 3/21/00. EJ issue for PSD completeness.
NY		Con Edison - East River			450MW	NG; FO									Revised protocol in 4/11/00. PSD and NSR applicability analysis in 5/3/00.
NY		SCS Energy - Astoria			1000 MW	NG; FO									Protocol comments 12/21/99. Revised waiver comments out 5/8/00.
NY		Grassy Point - Havestraw Bay			550MW	NG; FO									Protocol comments out 1/4/00. EPA approval of onsite data 4/28/00.
NY		Keyspan - Ravenswood			250MW	NG; FO									Protocol comments out 3/16/00 (EPA)
NY		Glenville Energy Park			520MW	NG									Revised data for Preliminary Scoping Statement in 5/4/00
NY		Brookhaven Energy Project			580 MW	NG									Preliminary Scoping Statement in 3/24/00
NJ	Dec-99	Mantua Creek Generating	3		ABB GT-24 (881 MW total)	NG; FO	CC		2.5 ppm NG; 6 ppm FO	DLN/SC R			CatOx		
NJ	Dec-99	Cogen Technology - Linden	1		GE 7FA (180 MW)	NG; FO	CC		2.5 ppm NG; 6 ppm FO	DLN/SC R			CatOx		
NJ	Jan-00	AES Red Oak Project	3		SW 501G (816 MW total)	NG	CC		3 ppm	DLN/SC R			CatOx		
NJ	applic. under review	Tosco Bayway Refinery Cogen Project	1	0	SW 501D5 (130 MW)	NG; refin. gas	CC								
NJ	applic. under review	Liberty Generating Project	3		SW 501G (1090 MW total)	NG	CC		2.5 ppm	DLN/SC R			CatOX		
NJ	applic. under review	PSEG Fossil LLC Kearney	3		GE 7FA (750 MW total)	NG; FO	CC		3.5 ppm NG; 9 ppm FO	DLN/SC R					
NJ	applic. under review	PSEG Fossil LLC Bergen	3		GE 7FA (750 MW total)	NG; FO	CC		3.5 ppm NG; 9 ppm FO	DLN/SC R					

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NJ	applic. under review	PSEG Fossil LLC Linden	3		GE 7FA (750 MW total)	NG; FO	CC		3.5 ppm NG; 9 ppm FO	DLN/SC R					
NJ	applic. under review	PSEG Fossil LLC Sewaren	3		GE 7FA (500 MW total)	NG; FO	CC		3.5 ppm NG; 9 ppm FO	DLN/SC R					
NJ	Feb-00	PSEG Fossil LLC Linden	2		GE 7EA (170 MW total)	NG; FO	SC		12 ppm NG; 42 ppm FO	DLN					
NJ	applic. under review	PSEG Fossil LLC Burlington	4		GE LM 6000 (500 MW total)	NG	SC			DLN					
NJ	withdrawn	Sithe Energy (GPU) - Belvidere	1		(85 MW)	NG	SC								
NJ	applic. under review	Sithe Energy (GPU) - Atlantic	2		170 MW-1st Phase, 350 MW - 2nd Phase.	NG	CC			DLN/SC R					
NJ	withdrawn	Sithe Energy (GPU) - Forkedriver	2		GE Frame 6 (130 MW total)	NG	SC								
NJ	withdrawn	Sithe Energy (GPU) - Sayerville	3		(840 MW total)	NG	CC								
NJ	applic. under review	Sithe Energy (GPU) - Gilbert	-		100 MW total	NG	CC			DLN/SC R					addition of HRSG and steam generator to existing turbine
NJ	applic. under review	Statoil Celtic, Inc. - Kearney	3		750 MW total	NG	CC		2.5 ppm	DLN/SC R			CatOx		
PR	Sep-98	AES Puerto Rico			454 MW total	coal									
PR		PREPA-San Juan	2		464 MW total	FO									
VI	draft permit	VIWAPA-St Thomas	1		24 MW										
REGION 3															
DE	applic. under review	Hay Road - Delaware			SC by 2001 then CC by 2003, + 550 MW		SC								

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MD	applic. under review	ODEC Rock Springs - Cecil Co., MD			1020 MW total		SC								
VA	Sep-99	Virginia Power - Remington, VA			500 MW total		SC								
VA	applic. under review	Dominion Energy - Caroline County, VA			500 MW total		SC								
VA	Apr-00	Doswell - Hanover Co., VA			190 MW total		SC								
VA	draft permit	Wolf Hills - Washington Co., VA			250 MW total		SC								
PA	draft permit	Ontelaunee Energy - PA			544 MW total		CC								
PA	May-00	Liberty Electric - Eddystone PA			500 MW total		CC								
PA	applic. under review	Panda Brandywine - Montgomery Co., PA			1000 MW total		CC								
PA	applic. under review	SWEC - Falls Township, PA			500 MW total		CC								
PA	applic. under review	FPL - Marcus Hook, PA			750 MW total		CC								
PA	applic. under review	Limerick - Limerick, PA			500 MW total		CC								
	applic. under review	ODEC - Louisa County			500 MW total		SC								
REGION 4															
AL	12-97	Alabama Power - Olin Cogeneration	1	1	GE 7EA (80 MW)	NG	CC	8,760	15 ppm	DLN		0.07 lb/MMBtu	GCP		Power Augmentation
AL	5-98	Alabama Power - GE Plastics Cogeneration	1	1	GE 7EA (80 MW)	NG	CC	8,760	9 ppm; 0.20 lb/MMBtu (DB)	DLN		0.08 lb/MMBtu (combined)	GCP		

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AL	8-98	Alabama Power, Plant Barry	3	3	GE 7FA (170 MW)	NG	CC	8,760	3.5 ppm / 0.013 lb/MMBtu	DLN/SC R		0.057 lb/MMBtu	GCP		
AL	8-99	Alabama Power, Plant Barry	1	1	GE 7FA (170 MW)	NG	CC	8,760	3.5 ppm / 0.013 lb/MMBtu	DLN/SC R		0.060 lb/MMBtu	GCP		
AL	1-99	Mobile Energy, LLC - Hog Bayou	1	1	GE 7FA (168 MW)	NG; FO	CC	8,760; 675 FO	3.5 ppm NG; 41 ppm w/ FO	DLN/SC R; WI		0.040 lb/MMBtu NG; 0.058 lb/mmBtu FO	GCP		
AL	3-99	Alabama Power - Theodore Cogeneration Facility	1	1	GE 7FA (170 MW)	NG	CC	8,760	3.5 ppm/ 0.013 lb/MMBtu	DLN/SC R		0.086 lb/MMBtu	GCP		
AL	11-99	Tenaska Alabama Partners	3	3	GE 7FA (170 MW)	NG; FO	CC	8,760; 720 FO	3.95 ppm NG; 11.3 ppm FO	DLN/SC R; WI/SCR		32.9 ppm NG; 46.7 ppm NG/FO	GCP		
AL	4-00	Georgia Power - Goat Rock	8	8	GE 7FA (170 MW)	NG	CC	8,760	3.5 ppm/ 0.013 lb/MMBtu	DLN/SC R		0.086 lb/MMBtu	GCP		
AL	draft permit	Alabama Electric Cooperative - Gantt Plant	2	2	SW 501F (166 MW)	NG	CC	8,760	3.5 ppm / 0.013 lb/MMBtu	DLN/SC R		0.057 lb/MMBtu	GCP		
AL	applic. under review	South Eastern Energy Corp.	6	6 if CC	GE 7FA or SW 501F	NG	SC or CC	8,760	9 or 25 or 3.5 ppm	DLN if SC/SCR if CC		9 or 19 or 22 ppm	GCP		For NOx and CO: SC w/GE or SC w/SW501F or CC (either)
AL	applic. under review	Calpine Solutia - Decatur	3	3	SW501F (180 MW)	NG	CC	8,760	4.0 ppm	SCR		15 ppm	GCP		
AL	applic. under review	Calpine BP Amoco	3	3	SW501F (180 MW)	NG	CC	8,760	4.0 ppm	SCR		15 ppm	GCP		
AL	applic. under review	Tenaska Alabama II Generating Station	3	3	GE 7FA (170 MW)	NG; FO	SC & CC	8,760; 720 FO	15/42 ppm (SC); 4/42 ppm (CC)	DLN/WI; SCR/WI		0.058 / 0.062 lb/mmBtu (SC & CC)	GCP		
AL	applic. under review	Hillabee Energy Center	2	2	SW501G (229 MW)	NG	CC	8,760	3.5 ppm	DLN/SC R		10/12/25/26 ppm	GCP		75-100%load/DF/PA/PA+DF (up to 2,000 hr/yr PA mode)
AL	applic. under review	Buccaneer Gas Pipeline Company	5		Solar Mars T15000S (15,000 hp)	NG	SC	8,760	30 ppm	DLN		50 ppm	GCP		

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FL	7-10-98	City of Lakeland, McIntosh Power Plant	1		SW 501G (230 MW)	NG; FO	SC (later CC)	7,008; 250 FO	25 ppm until 5/2002, 9 ppm after, 7.5 ppm if CC. NG; 42 ppm or 15 ppm FO	DLN or SCR; WI or SCR		25 ppm NG; 90 ppm FO	GCP		Power Augmentation
FL	12-4-98	Santa Rosa Energy Center, Sterling Fibers Mfg. Facility	1	1	GE 7FA (167 MW)	NG	CC	8,760	9 ppm, 9.8 ppm w/ DB	DLN		9 ppm; 24 ppm w/ DB	GCP		If a different CT is used, SCR may be required to meet 6 ppm NOx)
FL	11-99	Kissimmee Utility Authority, Cane Island Power Park Unit 3	1		GE 7FA (167 MW)	NG; FO	CC	8,760; 720 FO	3.5 ppm NG; 15 ppm FO	SCR		12 ppm, 20 ppm w/ DB NG; 30 ppm FO	GCP		
FL	draft permit.	Duke Energy - New Smyrna Beach	2		GE 7FA (165 MW)	NG	CC	8,760	9 ppm or 6 ppm	DLN or SCR		12 ppm	GCP		
FL	10-99	Polk Power (TECO)	2		GE 7 FA (165 MW)	NG; FO	SC	5,130; 750 FO	10.5 ppm NG; 42 ppm FO	DLN; WI		15 ppm NG; 33 ppm FO	GCP		
FL	11-99	Oleander Power	5		GE 7FA (190 MW)	NG; FO	SC	3,390; 1,000 FO	9 ppm NG; 42 ppm FO	DLN; WI		12 ppm NG; 20 ppm FO	GCP		
FL	11-99	Lake Worth Generation	1	1	GE 7FA (170 MW)	NG; FO	CC	8,760; 1,000 FO	9 ppm NG; 42 ppm FO	DLN; WI		12 ppm NG; 20 ppm FO	GCP		
FL	draft permit	Hines Energy (FPC)	2		SW 501F (165 MW)	NG; FO	CC	8,760; 1,000 FO	6 ppm NG full load; 42 ppm FO	SCR; WI		25 ppm NG - full load; 30 ppm FO	GCP		
FL	10-99	Hardee Power Partners (TECO)	1		GE 7EA (75 MW)	NG; FO	SC	8,760; 876 FO	9 ppm NG; 42 ppm FO	DLN; WI		25 ppm NG; 20 ppm FO	GCP		
FL	12-99	Reliant Energy Osceola	3		GE 7FA (170 MW)	NG; FO	SC	3,000; 2,000 FO	10.5 ppm NG; 42 ppm FO	DLN; WI		10.5 ppm NG; 20 ppm FO	GCP		
FL	12-99	Florida Power Corp., Intercession City	3		GE 7EA (87 MW)	NG; FO	SC	3,390; 1,000 FO	9 ppm NG; 42 ppm FO	DLN; WI		25 ppm NG; 20 ppm FO	GCP		
FL	10-99	Jacksonville Electric Authority - Brandy Branch	3		GE 7FA (170 MW)	NG; FO	SC	4,000; 800 FO	10.5 ppm NG; 42 ppm FO	DLN; WI		15 ppm NG; 20 ppm FO	GCP		

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FL	draft permit	Gulf Power - Smith Station	2	2	GE 7FA (170 MW)	NG	CC	8,760	9 ppm, 10.1 ppm w/DB, 13.6 ppm w/ DB & steam aug.	DLN		13 ppm, 16 ppm w/ DB, 23 ppm w/ DB & steam aug.	GCP		Netting out of PSD for NOx and CO
FL	9-99	Florida Power & Light - Sanford	8		GE 7FA (170 MW)	NG, FO	CC	8,760; 500 FO	9 ppm NG; 42 ppm FO	DLN; WI		12 ppm NG; 20 ppm FO	GCP		Repowering, 4 units FO
FL	12-99	IPS Avon Park Corp. - Vandola Power Project	4		GE 7FA (170 MW)	NG; FO	SC	3,390; 1,000 FO	9 ppm NG; 42 ppm FO	DLN; WI		12 ppm NG; 20 ppm FO	GCP		Netting out of PSD for NOx and CO
FL	2-00	Gainesville Regional Utilities, Kelly Generating Station	1		GE 7EA (83 MW)	NG; FO	CC	8,760; 1,000 FO	9 ppm NG; 42 ppm FO	DLN; WI		20 ppm NG; 20 ppm FO	GCP		Netting out of PSD review for NOx
FL	1-00	IPS Avon Park - Shady Hills	3		GE 7FA (170 MW)	NG; FO	SC	3,390; 1,000 FO	9 ppm NG; 42 ppm FO	DLN; WI		12 ppm NG; 20 ppm FO	GCP		
FL	draft permit	Palmetto Power	3		SW 501F (180 MW)	NG	SC	3,750	15 ppm	DLN		25 ppm	GCP		
FL	applic. under review	Granite Power Partners	3		(180 MW)	NG; FO	SC	3,000; 500 FO	10.5/15/15/25 ppm NG; 42 ppm FO	DLN		12/16/10/6 ppm NG; 23/20/28/25 ppm FO	GCP		4 vendor options: GE 7FA/SW 501F/SW 501D5A/ABB GT-24
FL	draft permit	IPS Avon Park Corp. - DeSoto Power Project	3		GE 7FA (170 MW)	NG; FO	SC	3,390; 1,000 FO	9 ppm NG; 42 ppm FO	DLN; WI		12 ppm NG; 20 ppm FO	GCP		
FL	applic. under review	Florida Power & Light - Martin Power Plant	2		GE 7FA (170 MW)	NG; FO	SC	3,390; 500 FO	10.5 ppm NG (15 ppm HPM); 42 ppm FO	DLN; WI		12 ppm NG (15 ppm HPM); 20 ppm FO	GCP		HPM = High Power Mode (power augmentation)
FL	applic. under review	Calpine Osprey Energy Center	2	2	SW 501FD (170 MW)	NG	CC	8,760	4 ppm	DLN/SC R		10 ppm (25/16/30/50 ppm)	GCP		2,800 hr/yr - Power Aug. mode (PA/DF/PA+DF/60-70% load)
GA	12-98	Tenaska Georgia Partners, L.P.	6		GE 7FA (160 MW)	NG; FO	SC	3,066; 720 FO	15 ppm NG; 42 ppm FO	DLN; WI		15 ppm NG; 20 ppm FO	GCP		

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GA	6-99	West Georgia Generating; Thomaston	4		GE 7FA (170 MW)	NG; FO	SC	4,760; 1,687 FO	12 ppm NG (15 ppm 30 day avg. for peak firing) ; 42 ppm FO	DLN; WI		15 ppm NG; 20 ppm FO	GCP		
GA	10-99	Heard County Power	3		SW 501FD (170 MW)	NG	SC	4,000	15 ppm	DLN		25 ppm	GCP		
GA	8-99	Georgia Power, Jackson County	16		GE 7EA (76 MW)	NG; FO	SC	4,000; 1,000 FO	12 ppm NG (15 ppm 30 day avg. for peak firing) ; 42 ppm FO	DLN; WI		0.101 lb/MMBtu NG; 0.046 lb/MMBtu FO	GCP		
GA	applic. under review	Georgia Power - Wansley	8	8	GE 7FA (170 MW)	NG	CC	8,760	3.5 ppm / 0.013 lb/MMBtu	DLN/SC R		0.066 lb/MMBtu	GCP		
KY	applic. under review	Kentucky Pioneer Energy	2		GE 7FA (197 MW)	syng as	CC	8,760	15 ppm	Steam Injection		15 ppm	GCP		
KY	applic. under review	Duke Energy - Marshall Co.	8		GE 7EA (80 MW)	NG; FO	SC	2,500; 500 FO	12/9 ppm NG; 42 ppm FO	DLN; WI	1-hr	20 ppm NG; 25 ppm FO	GCP		
MS	11-97	LS Power Limited Partnership	3	3	SW 501G (281 MW)	NG; FO	CC	8,760 (up to 10% FO)	9 ppm NG; 42 ppm FO	DLN; WI		30.3 ppm NG; 36 ppm FO	GCP		
MS	12-98	Mississippi Power Corp., Plant Daniel	4	4	GE 7FA (170 MW)	NG	CC	8,760	3.5 ppm / 0.018 lb/MMBtu	DLN/SC R		0.057 lb/MMBtu	GCP		
MS	draft permit	Duke Energy Hinds, L.L.C.	2		GE 7FA (170 MW)	NG	CC	8,760	3.5 ppm	DLN/SC R		20 ppm	GCP		
MS	4-00	Duke Energy Attala, L.L.C.	2		GE 7FA (170 MW)	NG	CC	8,760	3.5 ppm	DLN/SC R		20 ppm	GCP		
MS	draft permit	Cogentrix Energy, Southaven Power Project	3	3	GE 7FA (170 MW)	NG	CC	8,760	4.5 ppm (10.8 ppm w/ DB)	DLN/SC R		9 ppm, 18 ppm w/ DB	GCP		
MS	draft permit	Cogentrix Energy, Caledonia Power Project	3	3	GE 7FA (182 MW)	NG	CC	8,760	3.5 ppm (w/DB ?)	DLN/SC R		9 ppm	GCP		revised application to add SCR

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MS	applic. under review	Duke Energy Southaven	8		GE 7EA (80 MW)	NG; FO	SC	2,500; 500 FO	12 ppm NG (15 ppm 3-hr avg.); 42 ppm FO	DLN; WI		20 ppm NG; 25 ppm FO	GCP		
MS	applic. under review	GenPower - McAdams LLC	2	2	GE 7FA (170 MW)	NG	CC	8,760	3.5 ppm	DLN/SC R	24-hr	7-8 ppm/13 ppm (w/DB)	GCP	24-hr	
MS	applic. under review	Warren Power LLC	4		GE 7EA (80 MW)	NG	SC	2,000	9 ppm	DLN		25 ppm	GCP		
MS	applic. under review	Lone Oak Energy Center	3	3	F" Class (180 MW)	NG	CC	8,760	3.5 ppm	SCR		10/25/30/17 ppm	GCP		Base/PA/PA+DF/DF
MS	applic. under review	Mississippi Energy Facility	4	4	F" Class (170 MW)	NG	CC	8,760	3.5 ppm	SCR		25 ppm	GCP		
NC	11-99	Carolina Power & Light, Richmond Co.	7		GE 7FA (170 MW)	NG; FO	SC	2,000; 1,000 FO	9 ppm NG at startup, 10.5 ppm long-term; 42 ppm FO	DLN; WI		15 ppm NG; 20 ppm FO	GCP		
NC	applic. under review	Carolina Power & Light, Richmond Co.	2		GE 7FA (170 MW)	NG; FO	CC	8,760; 1,000 FO	9 ppm NG; 42 ppm FO	DLN; WI		15 ppm NG; 20 ppm FO	GCP		Modification to previous permit to switch 2 SC -> CC
NC	11-99	Carolina Power & Light, Rowan Co.	5		GE 7FA (170 MW)	NG; FO	SC	2,000; 1,000 FO	9 ppm NG at startup, 10.5 ppm long-term; 42 ppm FO	DLN; WI		15 ppm NG; 20 ppm FO	GCP		
NC	6-99	Rockingham Power (Dynergy)	5		SW 501F (156 MW)	NG; FO	SC	3,000; 1,000 FO	25 ppm NG until 4/01, 20 ppm until 4/02, 15 ppm after; 42 ppm FO	DLN; WI		25 ppm NG; 50 ppm FO	GCP		
NC	applic. under review	Butler-Warner Generation Plant	2		GE 7FA (170 MW)	NG; FO	SC & CC	8,760; 500 FO	9 ppm NG; 42 ppm FO	DLN; WI		9 ppm NG; 41 ppm FO	GCP		

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SC	draft permit	Santee Cooper, Rainey Generating Station	4		GE 7FA (170 MW)	NG, FO	2 CC, 2 SC	8,760; 1,000 FO	9 ppm NG; 42 ppm FO	DLN; WI		9 ppm NG; 20 ppm FO	GCP		
SC	12-99	Broad River Energy (SkyGen)	3		GE 7FA (171 MW)	NG, FO	SC	3,000; 500 FO	9 ppm NG; 42 ppm FO	DLN; WI		15 ppm NG; 20 ppm FO	GCP		
SC	applic. under review	SC Gas & Electric Urquhart	2		GE 7FA (150 MW)	NG, FO	CC	8,760; 8,760 FO	45 ppm			12 ppm NG; 20 ppm FO	GCP		Netting out of NOx and SO2 PSD Review
TN	7-99	TVA, Johnsonville Fossil Plant	4		GE 7EA (85 MW)	NG; FO	SC	see comment	15 ppm NG; 42 ppm FO	DLN; WI ?		25 ppm NG; 20 ppm FO	GCP		10% NG base mode, 10% NG peaking, 10% FO base
TN	7-99	TVA, Gallatin Fossil Plant	4		GE 7EA (85 MW)	NG; FO	SC	see comment	15 ppm NG; 42 ppm FO	DLN; WI ?		25 ppm NG; 20 ppm FO	GCP		10% NG base mode, 10% NG peaking, 10% FO base
TN	applic. under review	TVA, Lagoon Creek Plant	16		GE 7EA (110 MW)	NG; FO	SC	see comment	12 ppm/127 TPY NG; 42 ppm FO	DLN; WI ?	30;15 day	25 ppm NG; 20 ppm FO	GCP		10% NG base mode, 10% NG peaking, 10% FO base; 127 tpy of NOx is based on a 9 ppm
TN	draft permit	Vanderbilt University	2	2	GE PGT5B (5.2 MW)	NG	CC	8,760	25 ppm	DLN		25 ppm	GCP		
REGION 5															
IL	Dec-98	Peoples Gas, McDonell Energy	10	0	250 MW	NG, ethane	CC	8,760	4.5 ppm	SCR	1-hr	0.031 lb/mmBtu	GCP		BACT; Ox Cat rejected at \$3043/ton
IL	Dec-98	Peoples Gas, McDonell Energy	4		170 MW	NG, ethane	SC	1,500	15 ppm	DLN	1-hr	0.031 lb/mmBtu	GCP		BACT; operational
IL	Jan-99	Illinois Power Tilton	4		44 MW	NG	SC	2,352	0.1 MMBtu	WI					Synth Minor; operating
IL	Jan-99	Indeck Pleasant Valley	2		150 MW	NG	SC	1,500	15 ppm	DLN					Synth Minor; rejected by county
IL	Feb-99	Dynergy, Rock Rd. Power	2		121 MW	NG	SC	1,300	25 ppm	DLN					Synth Minor; operational
IL	Feb-99	Dynergy, Rock Rd. Power	1		35 MW	NG	SC	1,300	42 ppm						Synth Minor; operational
IL	Feb-99	Indeck Libertyville	2		150 MW	NG	SC	2,000	15 ppm	DLN					Synth Minor; awaiting city approval
IL	Mar-99	Soyland Power Aley	2		30 MW	NG; FO	SC	475							Synth Minor; under construction
IL	Mar-99	Soyland Power Aley	2		22.5 MW	NG; FO	SC	460		WI					Synth Minor; under construction

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IL	Jun-99	LS Power, Kendall Energy	4		220 MW	NG	SC	1,048	25 ppm	DLN	1-hr				Synth Minor
IL	Jun-99	LS Power, Kendall Energy	4	4	220 MW	NG	CC	8,760	4.5 ppm	SCR	1-hr	0.0626 w/DB, 0.0511 no DB; >75% load	GCP		BACT; Ox Cat rejected at \$4083/ton
IL	Jun-99	Union Electric, Gibson City Power	2		135 MW	NG; FO	SC	1,500	25 ppm NG; 42 ppm FO	DLN					Synth Minor; under construction
IL	Jun-99	Union Electric, Kinmundy Power	2		135 MW	NG; FO	SC	1,500	9 ppm NG; 42 ppm FO	DLN					Synth Minor; under construction
IL	Jul-99	Reliant Energy, Cardinal	3	3	211 MW	NG, RFG	CC	8,760	3.5 ppm NG; 4.5 ppm RFG	SCR	8 hr/1 hr	0.0472 lb/mmBtu	GCP		BACT & LAER (NOx); Co-located with refinery, separate source; Ox Cat rejected at
IL	Sep-99	Mid America, Cordova Energy Center	2	0	290 MW	NG	CC	8,760	4.5 ppm	SCR	1-hr	.0547 lb/mmBtu: loads > 75%, after 9/2001	GCP		BACT; Ox Cat rejected at \$1307/ton
IL	Sep-99	Enron, Des Plaines Green Land	8	0	83 MW	NG	SC	3,250	9/12/15 ppm	DLN	an/mo/ hr	0.054 lb/mmBtu (>45F), .089 lb/mmBtu (<45F)	GCP		BACT; Ox Cat rejected at \$6800/ton
IL	Oct-99	Dynegy, Rock Rd. Power	1		121 MW	NG	SC	1,450	15 ppm	DLN					Synth Minor
IL	Dec-99	Reliant Energy, McHenry County Plant	3		170 MW	NG	SC	2,800 max (800 avg)	9 ppm	DLN					Synth Minor
IL	Jan-00	Enron, Kendall New Century	8	0	83 MW	NG	SC	3,300	9/12/15 ppm	DLN	an/mo/ hr	0.054 lb/mmBtu (>45F), .089 lb/mmBtu (<45F)	GCP		BACT; Ox Cat rejected at \$6700/ton
IL	Jan-00	LS Power, Nelson Project	4		220 MW	NG; FO	SC	2,549 total, 2,000 each	25/15	DLN	1-hr				Synth Minor; minor until test under 15 ppm
IL	Jan-00	LS Power, Nelson Project	4	4	220 MW	NG; FO	CC	8,760	4.5 ppm NG; 16 ppm FO	SCR	1-hr	0.0626 w/DB, 0.0511 no DB; >75% load	GCP		BACT; Ox Cat rejected at \$3100/ton
IL	Feb-00	Ameren CIPS	2	2	600 MW	NG	CC	8,760	-	-	-	0.06 lb/mmBtu	GCP	3 hr	BACT for CO and VOC only - netting out of NOx, PM and SO2 review; replacing coal boilers; Ox Cat rejected at \$3400/ton

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IL	draft permit	Holland Energy	2	2	680 MW	NG; FO	CC	8,760	4.5 ppm NG (3.5 ppm); 16 ppm FO (10 ppm)	SCR	1 hr (24 hr)	0.02, 0.04 FO, 0.12 NG w/DB	GCP	1-hr	BACT; SCR cost \$8,900/ton; Ox Cat rejected at \$10,600/ton
IL	draft permit	Duke Energy	8	0	83 MW	NG; FO	SC	2,000; 500 FO	15 ppm NG (12 ppm); 42 ppm FO	DLN	1 hr (ann.); 1 hr		GCP	1-hr	BACT; SCR rejected at \$27,689/ton; Ox. Cat rejected at \$6,931/ton
IL	applic. under review	Constellation Power	2		168 MW	NG; FO	CC			SCR					BACT
IL	applic. under review	Soyland Power Aley	1		25 MW	NG; FO	SC								Synth Minor
IN	Dec-98	PSI - Fayette Peaking Station	4/2		4@45 or 2@170 MW	NG	SC	peaking	25 ppm	either DLN or WI		15 ppm			Syn. Minor
IN	Jan-99	PSI-Wabash Peaking Station	3		LM 6000 (43 MW)	NG; FO	SC	3,000	25 ppm NG; 28 ppm FO	DLN and WI		42 ppm NG; 6 ppm FO			Syn. Minor
IN	Jul-99	Vermillion Generating Station	8	0	GE 7EA (80 MW)	NG; FO	SC	2,500	12/15 ppm NG; 42 ppm FO	DLN and WI	an	25 ppm NG; 20 ppm FO	GEP-25 ppm (NG); 20 ppm DO	1-hr > 50% load	BACT; Usage limit of 20,336 MMCF NG-12 consec. months. Also 2 Emergency Generators; 1 Emergency Diesel Fire Pump; 4 Diesel Storage Tanks; SCR @ \$19,309/ton (avg.); Ox Cat @ 90% Control, rejected at \$8,977/ton
IN	Jul-99	Cinergy Corporation	3		GE LM6000 (43 MW)	NG; FO	SC	3,000	25 ppm NG; 28 ppm FO	DLN and WI		42 ppm NG; 6 ppm FO			Synth Minor
IN	Jul-99	AES, Greenfield	4/2		4@45 or 2@170 MW	NG	SC	peaking	25 ppm	either DLN or WI		15 ppm			Synth Minor
IN	Aug-99	Indianapolis Power and Light	1		GE 7121EA (95.7 MW)	NG; FO	SC	peaking	25 ppm NG; 42 ppm FO	WI					Synth Minor
IN	Sep-99	Indianapolis Power and Light	3		GE (88.4 MW)	NG	SC	peaking	25 ppm NG; 42 ppm FO	DLN	an/hr	25 ppm NG; 20 ppm FO			Synth Minor

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IN	applic. under review	DeSoto Generating Station	8		GE 7EA (80 MW)	NG	SC	2,500	15 ppm NG (12 ppm); 42 ppm FO	DLN	1 hr (ann.); 1 hr	25 ppm NG; 20 ppm FO			BACT
IN	draft permit	West Fork Land Development (ENRON)	4		SW 501D5A (135 MW)	NG	SC	966	25	WI		12 ppm			Synth Minor
IN	no appl. (10-99)	Parke County	2		225 MW?	NG; FO	CC	8,760	3.5, ?? FO	DLN and SCR	an/hr	unknown			BACT
IN	applic. under review	Whiting Clean Energy	2		GE 7FA (166 MW)	NG	CC	8,760	3 ppm; 4 ppm w/DB	DLN and SCR		9 ppm; <19 ppm w/duct burners			LAER
IN	applic. under review	LSP	4		200 MW?	NG; FO	EITHER	8,760	3.5 ppm; 4.5 w/DB, 16 FO	DLN/WI and SCR		33.1 ppm - 234.3 (50% load); 49.6 ppm - 168 ppm (50% load) FO			BACT
MI	Feb-99	Wyandotte Energy	2		500 MW	NG	CC	8,760	4.5 ppm(33 lb/hr)	SCR		3-5 ppm	Cat Ox		LAER; SCR cost \$5600/ton
MN	Nov-98	LSP-Cottage Grove	1		Westinghouse 501F (245 MW)	NG; FO	CC	7,060 NG; 1,700 FO	4.5 ppm NG; 16 ppm FO	SCR	1-hr	1200 lb/hr, 1200 lb/hr FO	Cat Ox	1-hr	BACT
MN	draft permit	Lakefield Junction	6		GE model PG7121EA (92 MW)	NG; FO	SC	7,300	9 base, 25 peak, 42 FO	DLN, WI	3-hr	25 ppm NG; 20 ppm FO	GCP	3-hr	PSD; SCR rejected @ \$11,500/ton; Ox Cat rejected at \$3000/ton
MN	draft permit	Pleasant Valley	3		SW V.84.3A & 501D5A (155 MW & 134 MW)	NG; FO		8,760	35 ppm NG; 42 ppm FO	DLN, WI		35 ppm NG; 35 ppm FO			PSD
OH	Jul-99	Duke Energy Madison LLC	8		GE 7EA (80 MW)	NG; FO	SC	2,500 NG; 500 FO	15 ppm (12 ppm) NG; 42 ppm FO	DLN	1 hr (ann.)	25/25; 20/20 FO		hr/an	BACT; SCR rejected at \$19,000/ton; Ox Cat rejected at \$9000/ton

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WI	Jan-99	RockGen Energy	3		GE 7FA (175 MW)	NG; FO	SC	3,800 Total, 800 FO	12/15 ppm NG; 42 ppm FO	DLN	24 hr/inst; 1 hr	12 ppm NG; 15 ppm FO (load>75%) & 24 ppm FO (load<75%)	DLN, GEP	1-hr	BACT; SCR not chosen; cost \$23,018/ton; Ox Cat rejected at \$15 K/ton
WI	Feb-99	Manitowoc Public Utility	1		GE Frame 5 (24.5 MW)	NG; FO	SC	2,328 Total	77 ppm NG; 77 ppm FO	WI	1-hr	50 ppm NG & FO		1-hr	BACT
WI	Feb-99	Southern Energy	2		GE 7FA (180 MW)	NG; FO	SC	8,760 Total, 699 FO	12/15 ppm NG; 42 ppm FO	DLN	24 hr/inst; 1 hr	12 ppm NG; 15 ppm FO (load>75%) & 24 ppm FO (load<75%)	DLN, GEP	24-hr /1-hr FO	BACT; Ox Cat rejected at \$14 K/ton
WI	Jul-99	Wisconsin Public Service	1		GE 7EA (102 MW)	NG; FO	SC	4,000 Total, 2,000 FO	9 ppm NG; 42 ppm FO	DLN	hr, nat gas, FO	25 ppm NG (100% load)/ 45 ppm (>75% load)/ 100 ppm (>60% load); 20 ppm FO	GEP	1-hr	BACT; SCR rejected at \$13,866/ton; Ox Cat rejected at \$6053/ton incremental cost
WI	draft permit	Wisconsin Electric	1		GE 7EA (85 MW)	NG; FO	SC	178,000 MWhrs, 2,000 hrs, 100 hr power aug.	9 ppm NG (20 ppm w/power aug.); 42 ppm FO	DLN	24-hr, 1-hr FO	25 ppm NG (100% load)/ 45 ppm (>75% load)/ 100 ppm (>60% load); 20 ppm FO	GEP	1-hr	BACT; SCR rejected at \$10,257/ton; Ox Cat rejected at \$5984/ton incremental cost
REGION 6															
AK	final permit	Jonesboro City Water & Lights	3		2 - 23 MW, 1 - 44 MW		SC								
AK	draft permit	Cross Oil Refinery - Mod			15 MW		CC								
AK	draft permit	Gen Power			610 MW total		CC								
AK	final permit	Pine Bluff Energy			250 MW										
AK	draft permit	Pine Bluff Energy - Mod			250 MW										
AK	draft permit	Union Generating Station	10		260 MW		CC								
AK	final permit	KN Power	7		510 MW total		CC								
AK		Paragould Electric	4		4 MW total		SC								

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AK		Arkansas Electric Coop	1		3 MW		SC								
LA	applic. under review	Cogentrix - Eunis			800 MW total		CC								
LA	applic. under review	Cogentrix - Bogolosa			800 MW total		CC								
LA	applic. under review	Cogentrix - Sterlington			800 MW total		CC								
LA	applic. under review	Cogentrix - Acadia			300 MW total		SC								
LA		Calcasieu Power			370 MW total		CC								
LA	final permit	Entergy - Monroe			138 MW total		CC								
LA	draft permit	Baton Rouge Energy			225 MW total		?								
NM	final permit	El Paso Electric/Rio Grande Power Plant,			261 MW total										
NM	final permit	Lordsburg Limited/100 MW Repowering,			100MW total										
NM	shutdo wn	Lea County/North Lovington,			49.5 MW total										
NM	final permit	Plains Electric/Escalante Plant			200-300 MW total										
NM	final permit	PNM/San Juan,			1798 MW total										
NM	final permit	Southwestern Public Service/Cunningham,			511 MW total										
NM	final permit	Southwestern Public Service/Maddox			292 MW total										

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NM	no TV permit required,	Southwestern Public Service/Carlsbad			16 MW total										
NM	final permit	Williams Field Services/Milagro Cogen,			62 MW total										
NM	draft permit	Raton Public Service/Raton Plant,			11.25 MW total										
OK	Mar-99	AECI-Chouteau	2		530 MW total		CC								
OK	Oct-99	Cogentrix -Jenks	3		800 MW total		CC								
OK	Oct-99	C&SW	2		320 MW total		CC								
OK	Jan-00	Panda - Coweta	4		1000 MW total		CC								
OK	Feb-00	OG&E-Hrshoe	2		90 MW total		SC								
OK	Jan-00	Duke-Newcastle	2		520 MW total		CC								
OK	May-00	ONEOK -Edmond	4		360 total		SC								
OK	applic. under review	Energetix - Arcadia	3		825 MW total		CC								
OK	applic. under review	Energetix - Thunderbird	3		825 MW total		CC								
OK	applic. under review	Kiowa Power	4		1200 MW total		CC								
OK	applic. under review	SmithCoGen	2		600 MW total		CC								
TX	Jan-99	Lubbock Power & Light	2		LM6000 (42 MW)				15 ppm	SCR		25 ppm			
TX	Oct-98	Midlothian Energy Ltd. (Venus) (1080 MW total)	4		ABB-GT24 (175 MW)				9/5 ppm	SCR		25 ppm			

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TX	Oct-98	City Public Service (500 MW total)	2		GE 7FA (170 MW)				9 ppm	SCR		25 ppm			
TX	Dec-98	Calpine Magic Valley (700 MW total)	2		SW501G (230 MW)				12/9 ppm	SCR		25 ppm			
TX	Oct-98	Lamar Power Part. (Panda Paris) (1000 MW total)	4		GE 7FA (170 MW)				9 ppm	DLN		18 ppm			
TX	Oct-99	Union Carbide	1		F6B (39 MW)				9 ppm	DLN		25 ppm			
TX	applic. under review	Air Products, Inc. (240 MW total)	1		SW501F (168 MW)				9/5 ppm	SCR		20 ppm			(Reactivated 11/15/99), N013 (VOC & NOx)
TX	Dec-98	Duke Energy Hidalgo, LP (520 MW total)	2		GE 7FA (170 MW)				9 ppm	DLN		20 ppm			
TX	Feb-99	Panda Guadalupe Power (1000 MW total)	4		GE 7FA (170 MW)				9 ppm	DLN		15 ppm			
TX	Apr-99	Fina/BASF (amend - Substitute) (78 MW)	2		F6B (39 MW)				9 ppm	DLN/SCR		25 ppm			Cogen for Boiler, N007 (VOC only, Nox 182f)
TX	Nov-99	Eastex Cogen (466 MW total)	2		GE 7FA (168 MW)				9 ppm	DLN		7 ppm			
TX	May-99	Tenaska Gateway (888 MW total)	3		GE 7FA (164 MW)				9 ppm	DLN		25 ppm			
TX	Jun-99	Hays Energy Project (1080 MW total)	4		ABB-GT24 (175 MW)				5 ppm	DLN/SCR		5 (25) ppm			
TX	Dec-99	Ennis-Tractabel Power Co., Inc. (350 MW total)	1		SW501G (250 MW)				9 ppm	SCR		20 ppm			
TX	Jun-99	Sabine River Works Cogen LP (440 MW total)	2		GE 7FA (170 MW)				6 ppm	SCR		15 ppm			
TX	KHE	SEI - Texas, LLC (650 MW total)	2/2		GE 7FA (170 MW) / GE 7EA (82 MW)				9/9 ppm	DLN		9/25 ppm			
TX	Dec-99	SEI - Texas, LLC (650 MW total)	3		GE 7FA (170 MW)				9 ppm	DLN		9 ppm			
TX	Mar-00	Mobil Oil (740 MW total)	3		SW501F (180 MW)				9/9 ppm	DLN/SCR		10/25 ppm			

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TX	Nov-99	Cogen Lyondell (Turbine #7)	1		SW501F (160 MW)				25 ppm	DLN		25 ppm			
TX	Feb-00	City of Garland	1		GE 7EA (85 MW)				9 ppm	DLN		25 ppm			
TX	Dec-99	Rio Nogales Power Project LP (780 MW total)	3		GE 7FA (170 MW)				9 ppm	DLN		7.4 ppm			
TX	Nov-99	Odessa-Ector Power Partners LP (1000 MW total)	4		GE 7FA (170 MW)				9 ppm	DLN		9 ppm			
TX	Jan-00	Archer Power Partners LP (1000 MW total)	4		GE 7FA (170 MW)				9 ppm	DLN		9 ppm			
TX	Feb-00	AES Aurora (1000 MW total)	4		GE 7FA (170 MW) / SW501F (183 MW)				9 ppm	DLN		25 ppm			
TX	KHE	Freestone Power Project LPm (1070 MW total)	4		GE 7FA (175 MW)				9 ppm	DLN		20 ppm			
TX	Sep-99	GenTex Power Corp. & Calpine (500 MW total)	2		SW501F (180 MW)				5 ppm	SCR		10/25 ppm			
TX	Jan-00	Duke Energy Kaufman (440 MW total)	2		GE 7FA (170 MW)				9 ppm	DLN		20 ppm			
TX	Feb-00	Corpus Christi Cogeneration LP (708 MW total)	3		GE 7FA (166 MW)				9 ppm	DLN		15 ppm			
TX	Feb-00	Duke Energy Bell LP (520 MW total)	2		GE 7FA (170 MW)				9 ppm	DLN		20 ppm			
TX	Nov-99	Midlothian Energy (add #5 & #6) (550 MW total)	2		ABB-GT24 (175 MW)				5 ppm	SCR		25 ppm			
TX	Mar-00	Gateway Power Project, LP (800 MW total)	3		GE 7FA (170 MW)				9 ppm	DLN		7.4 ppm			
TX	Dec-99	Reliant Energy - Channelview (820 MW total)	4		SW501F (183 MW)				3 ppm	DLN/SCR		23 ppm			N017 (NOx and VOC)
TX	applic. under review	Chambers Energy Facility (2200 MW total)	8		ABB-GT24 (180 MW)				3.5 ppm	DLN/SCR		20 ppm	CatOx		N019 (NOx and VOC)

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TX	Mar-00	Coastal Power Company (550 MW total)	2		GE 7FA (170 MW)				9 ppm	DLN		20 ppm			
TX	Mar-00	Cobisa-Forney, LP (1774 MW total)	6		GE 7FA (170 MW)				9 ppm	DLN		15 ppm			
TX	Feb-00	Calpine Corp. (750 MW total)	3		SW501F (180 MW)				3.5 ppm	DLN/SCR		15 ppm			N020 (NOx and VOC)
TX	applic. under review	LG&E Power Inc. (1600 MW total)	6		GE 7FA (170 MW)				9 ppm	SCR		15 ppm			
TX	Mar-00	Duke Energy Jack, LP (520 MW total)	2		GE 7FA (170 MW)				9 ppm	DLN		20 ppm			
TX	Mar-00	Calpine (740 MW total)	3		SW501F (180 MW)				3.5 ppm	SCR		25 ppm			N021 (NOx and VOC)
TX	applic. under review	Wise County Power Co., LLC (800 MW total)	2		SW501G (350 MW)				5 ppm	SCR		9 ppm	CatOx		
TX	applic. under review	West Texas Energy LP (1500 MW total)	6		ABB-GT24 (180 MW)				5 ppm	SCR		5 ppm			N024 VOC (128f for NOx)
TX	applic. under review	Texas Industrial Power (193 MW total)	1		GE 7FA (166 MW)				3.5 ppm	SCR		30 ppm			N023 (NOx and VOC)
TX	applic. under review	Westvaco Texas (85 MW total)	2		LM6000 (42 MW)				5 ppm	SCR		26 ppm			
TX	applic. under review	Cottonwood Energy Co., LP (600 MW total)	4		GE 7FA (170 MW) / SW501F (180 MW)				5 ppm	SCR					
REGION 7															
KS	5-88	Empire District	2		227.5 mmBtu/hr	NG			42 ppm	WI					
KS	draft permit	Western Resources	3		2 - 100 MW, 1 - 180 MW	NG; FO	SC		15 ppm NG; 42 ppm FO	DLN; WI					NOx limits are for > 70% load. NSPS limits will apply at < 70 % Load
MO	1-96	Kansas City Power & Light - Jackson	1		(200 MW)	NG	SC								
MO	draft permit	AECI - Nodaway	2		(100 MW)	NG	SC		25 ppm	DLN		90 ppm	GCP		

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MO	draft permit	AECI - St. Francis	1		(250 MW)	NG; FO	CC		4.5 ppm NG	SCR	3-hr	10 ppm NG	GCP		
MO	draft permit	Empire District - Stateline	1	1	SW 501F (150 MW)	NG	CC		4 ppm	SCR	30 day	10 ppm	GCP		recommissioned to CC
MO	applic. under review	Empire District - Stateline	1	1	SW 501F (150 MW)	NG	CC		4 ppm	SCR	30 day	10 ppm	GCP		
MO	applic. under review	Kansas City Power & Light - Jackson	1	1	(200 MW)	NG	CC		5 ppm	SCR		25 ppm	GCP		Retrofit w/ duct burners, waste heat boiler and SCR
MO	applic. under review	Kansas City Power & Light - Jackson	2		(75 MW)	NG	SC		9 ppm	DLN		25 ppm	GCP		
MO	applic. under review	Duke Energy - Audrain	8		GE 7EA (80 MW)	NG; FO	SC	2,500; 500 FO	12 ppm NG (15 ppm 1-hr avg.); 42 ppm FO	DLN; WI		20 ppm NG; 25 ppm FO	GCP		
MO	applic. under review	Duke Energy - Bollinger	8		GE 7EA (80 MW)	NG	SC	2,500	12 ppm (15 ppm 1-hr avg.)	DLN		20 ppm	GCP		
NE	7-99	Omaha Public Power	4		(25 MW)	NG; FO	SC		25 ppm NG; 42 ppm FO	WI		69 lb/hr NG; 34 lb/hr FO			
NE	6-99	Lincoln Electric System	1		(90 MW)	NG; FO	SC		25 ppm NG; 42 ppm FO	DLN; WI					
REGION 8															
CO	final 4/99	Colorado Energy Management (mod. to CO Power Partners/Brush Cogen) (+ 50)	2		1969 Westingho use 251AA	NG		4,000 (both CTs)	30 ppm for first 24 months, then 25 ppm	custom low-NOx burners	1-hr	60 ppm	GCP	1-hr	permit action also required NOx emission reductions on 2 other identical units from permitted 42 ppm immediately to 30 ppm and further to 25 ppm in 24 months.
CO	final 4/99	Colorado Springs Utilities/Nixon (66 MW)	2		GE PG6541(B)	NG	SC	8,660 (both CTs)	15 ppm	DLN	1-hr				did not trigger BACT for CO
CO	final 8/99	Fulton Cogeneration/Man chief (284 MW)	2		SW V84.3A1	NG	SC	8,760	15 ppm	DLN	1-hr	10 ppm	GCP	1-hr	

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CO	applic. 11/99	KN Energy/Front Range Energy Associates - Ft. Lupton (160 MW)	4		GE LM6000	NG	SC	**	25 ppm (proposed)	WI					project originally PSD application; State drafted syn minor permit w/ operating hours restrictions in 7/99; EPA commented to State concerning single source issue w/ adjacent PSCo facility; PSCo appealed to US 10th circuit court - currently
CO	applic. 3/00	Platte River Power Authority/Rawhide (82 MW)	1		GE Frame 7EA	NG	SC	8,760	9 ppm	DLN					plan startup 5/2002; CO PTE below significance level so didn't do BACT; characterized as peaking plant, but not restricted in operating hours
CO	draft permit 5/00	Public Service Co. of Colo./Ft. St. Vrain Unit 4 (242 MW)	1	1	GE PG7241 (FA)	NG	SC/C C	8,760	4 ppm (CC); 9 ppm (SC)	DLN+SCR (CC); DLN (SC)	24-hr	9 ppm (CC & SC), 20 ppm (CC w/ DB)	GCP	1-hr	plan startup 6/2001;
CO	applic. 11/99	Front Range Power Project/Ray Nixon Sta., Fountain, CO (480 MW)	2	2	GE Frame 7	NG	SC/C C	8,760	9 ppm/16 ppm w/ DB	DLN		25 ppm (proposed)	GCP	1-hr	plan to begin construction 1/01, operation 7/02; PSD mod to existing Colo Springs Utils/Nixon coal-fired power plant; revising application to net out of PSD for NOx using reductions at coal-fired unit; applicant calculated PTE using 95% ca
CO	applic. 4/00	North Amer. Power Group/Kiowa Creek (900-	4	4	GE7FA or equivalent	NG	CC	8,760	4 ppm (proposed)	SCR		23.2 ppm (proposed)	GCP	1-hr	plan to begin construction spring 2001, operation spring 2004; proposed project may trigger 112(g)
SD	applic. 11/99	Black Hills Power & Light/Lange CT Facility (80 MW)	2		GE LM6000PD	NG	SC	8,760	25ppm (proposed)	DLN	24-hr	25 ppm (proposed)	GCP		Characterized as peaking plant, but not restricted in operating hours
WY	final 3/00	Black Hills Power & Light/Niel Simpson II (80 MW)	2		GE LM6000PD	NG	SC	8,760	25 ppm	DLN	24-hr	25 ppm	GCP	1-hr	Region provided written comment disagreeing w/ NOx BACT determination; characterized as peaking plant, bur not restricted in operating hours

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WY	final 2/98	Two Elk Generation Partners (33 MW turbine)	1		GE LM5000	NG	SC	8,760	25 ppm	DLN	1-hr	25 ppm	GCP	1-hr	Facility is 250 MW coal-fired steam electric plus 33 MW NG CT; characterized as peaking plant, but not restricted in operating hours
REGION 9															
AZ	5-99 (EPA)	Calpine - South Point Generating Station			500 MW total	NG; FO	CC		3 ppm	SCR	3-hr	10 ppm NG; 35 ppm FO			
AZ		Griffith Energy, LLC			650 MW total		CC		3 ppm	SCR		0.5 ppm			
AZ		Reliant Energy - Desert Basin Generating Project			580 MW total		CC		3 ppm	SCR	24-hr	24 ppm		3-hr	
CA		AES Antelope Valley			1000 MW total										
CA		Blythe Energy			520 MW total		CC		2.5 ppm	SCR	1 hr	10 ppm >80%; 20 ppm @ 70-80%		3-hr	
CA		Delta Energy Center - Calpine and Bechtel			880 MW total		CC		2.5 ppm	SCR	1-hr	10 ppm		3-hr	Pollutant Trading - 1:1 VOC for NOx (nonattainment), 4:1 SO2 for PM10 (attainment)
CA		Sempra/OXY - Elk Hills			680-720 MW total										
CA		OXY & Sempra Energy; Elk Hills Power LLC (joint venture)			500 MW total		CC		2.5 ppm	SCR;	3-hr	4 ppm	CatOx	24-hr	Pollutant Trading - NOx for PM10; PSD Permit must be issued by EPA
CA	draft permit	High Desert Power Project LLC			700 MW total		CC		2.5 ppm	SCR	1-hr	4 ppm	CatOx	24-hr	
CA	7-99 (EPA)	US Generating - La Paloma	4		ABB (262 MW)		CC		2.5 ppm	SCR or SCONO x	1-hr				
CA		Long Beach District Energy Facility (ENRON)			500 MW total										
CA		Calpine and Bechtel - Metcalf Energy	2		600 MW total										
CA		Midway Sunset Cogeneration Co.			500 MW total										

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CA	5-99	Duke Energy - Moss Landing	2		530 MW		CC		2.5 ppm	SCR	1-hr	6 ppm		3-hr	AFC submitted to CEC on 5/7/99; Monterey Bay unified APCD to issue ATC early 2000; 2 x 15 MW upgrade SteamTurbine rotor when SCR
CA		Duke Energy - Morro Bay			530 MW total										
CA		Calpine and Bechtel - Newark Energy Center			600 MW total										
CA		PG&E Generating Otay Mesa			510 MW total		CC		2 ppm	SCONOx/SCR backup					Pollutant Trading - VOC reduc. for NOx inc.; District plans to issue PDOC in March 2000
CA		Pastoria Power Project			750 MW total		CC		2.5 ppm	XONON/SCR Backup	1-hr	6 ppm	CatOx		Pollutant Trading - NOx in lieu of PM10
CA	6-99	Pittsburg District Energy Facility (ENRON)			500 MW total		CC		2.5 ppm	SCR	1-hr	6 ppm	CatOx	3-hr	
CA		AES South City			550 MW total		SC/C								
CA		Sunlaw Cogen Partners			800 MW total		CC		1-2 ppm	SCONOx		1-2 ppm			
CA		Texaco Global - Sunrise Cogeneration			320 MW total		CC		2.5 ppm	SCR	1-hr	9 ppm			
CA	11-99	Calpine - Sutter Power			500 MW total		CC		2.5 ppm	SCR	1-hr	4 ppm		1 hr	EPA PSD permit: response to comments 7/22/99
CA		Campbell Cogen													
CA	applic. under review	Ogden Pacific Power - Three Mountain Power			500 MW total		CC		2.5 ppm	SCR	1-hr	10 ppm	CatOx	3-hr	Application: 1/99; District to issue PSD permit

Abbreviations:

GE = General Electric NG = Nat. Gas SC = Simple Cycle DLN = Dry-Low NOx CatOx = Catalytic Oxidation
 SW = Seimens Westingh FO = Fuel Oil CC = Combined Cycle WI = Water Injection GCP = Good Combust. Prac.
 CT = Combustion Turbin DB = Duct Burner SCR = Selective Catalytic Reduction