

Appendix E

RBLc Data

**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
NO_x Limits**

Name	Type/Size	NO_x Limit	Comments
Hawthorne Unit 5 Missouri	Pulverized Coal 570 MW	0.08 lb/mmbtu (30 day rolling avg) 0.10 lb/mmbtu (24 hour avg)	Final Permit 08-17-99 Low-NOx Burners with SCR Initial limit of 0.12 lb/mmbtu for first 36 months.
Springerville Units 3 and 4 Arizona	Pulverized Coal 450 MW each	1.6 lb/gross MWh (30 day rolling avg) 9,600 tpy Units 1, 2, 3 & 4	Final Permit 04-29-02 Low-NOx Burners with SCR. Netted with Units 1 and 2 – no increase in facility NOx emissions.
Holcomb Unit 2 Kansas	Pulverized Coal 660 MW	0.08 lb/mmbtu (30 day rolling avg)	Final Permit 10-08-02 Low-NOx Burners with SCR Initial limit of 0.12 lb/mmbtu for first 18 months.
Thoroughbred Units 1 and 2 Kentucky	Pulverized Coal 750 MW each	0.08 lb/mmbtu (30 day rolling avg)	Final Permit 10-11-02 Low-NOx Burners with SCR
Bull Mountain Roundup Units 1 and 2 Montana	Pulverized Coal 390 MW each	0.07 lb/mmbtu (24 hour avg) 0.10 lb/mmbtu (1 hour avg)	Final Permit 07-21-03 Low-NOx Burners with SCR
Plum Point Energy Station Unit 1 Arkansas	Pulverized Coal 550 – 800 MW	0.09 lb/mmbtu (30 day rolling avg)	Final Permit 08-20-03 Low-NOx Burners with SCR
Rocky Mountain Power, Hardin Unit 1 Montana	Pulverized Coal 113 MW	0.09 lb/mmbtu (30 day rolling avg)	Final Permit 06-11-02 Low-NOx Burners with SCR
Council Bluffs Energy Center Unit 4 Iowa	Pulverized Coal 750 MW	0.07 lb/mmbtu (30 day rolling avg) 2,353 tpy	Final Permit 06-17-03 Low-NOx Burners with SCR
Elm Road Generating Station, Units 1 and 2 Wisconsin	Pulverized Coal 600 MW each (6,180 mmbtu/hr)	0.07 lb/mmbtu (30 day rolling avg)	Final Permit 01-14-04 Low-NOx Burners with SCR. Must comply with 0.07 lb/mmbtu 12 month rolling average that includes startup and shutdown.
Longview Power Unit 1 West Virginia	Pulverized Coal 600 MW (6,114 mmbtu/hr)	0.07 lb/mmbtu (30 day rolling avg) 0.065 lb/mmbtu (annual avg)	Final Permit 03-02-04 Low-NOx Burners with SCR
Prairie State Generating Station Units 1 and 2 Illinois	Pulverized Coal 750 MW each (7,450 mmbtu/hr)	0.08 lb/mmbtu (30 day rolling avg)	Draft Permit 03-08-04 Low-NOx Burners with SCR
Hastings Utilities Whelan Energy Center Unit 2 Nebraska	Pulverized Coal 220 MW 2,210 mmbtu/hr	0.08 lb/mmbtu (30 day rolling avg)	Final Permit 03-30-04 Low-NOx Burners with SCR
Santee Cooper Cross Generating Station Units 3 and 4 South Carolina	Pulverized Coal 660 MW each (5,400 mmbtu/hr)	0.08 lb/mmbtu (30 day rolling avg)	Final Permit 08-05-04 Low-NOx Burners with SCR
Intermountain Power Project Unit 3 Utah	Pulverized Coal 950 MW (9,050 mmbtu/hr)	0.07 lb/mmbtu (30 day rolling avg) 633.5 lb/hr (24 hr block avg)	Final Permit 10-15-04 Low-NOx Burners with SCR Specific startup plan

**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
NO_x Limits (continued)**

Name	Type/Size	NO_x Limit	Comments
Wisconsin Public Service Weston Power Plant Unit 4 Wisconsin	Pulverized Coal 500 MW (5,173 mmbtu/hr)	0.07 lb/mmbtu (30 day rolling avg) 0.06 lb/mmbtu (12 month rolling avg)	Final Permit 10-18-04 Low-NOx Burners with SCR 12 month rolling avg limit includes periods of startup and shutdown
Xcel Comanche Unit 3 Colorado	Pulverized Coal 750 MW 7,421 mmbtu/hr	0.08 lb/mmbtu (30 day rolling avg)	Final Permit 07-05-05 Low-NOx Burners with SCR Specific startup provisions
Black Hills WYGEN Unit 2 Wyoming	Pulverized Coal 100 MW	0.07 lb/mmbtu (30 day rolling avg)	Revised Permit 07-11-05 Unit size reduced to 100 MW Low-NOx Burners with SCR

All the permits above, except Bull Mountain Roundup and Xcel Comanche, exempt startup, shutdown and malfunction in the short term (1 hour, 3 hour, 24 hour and 30 day) emission limits.

**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
SO₂ Limits**

Name	Type/Size	SO ₂ Limit	Comments
Hawthorne Unit 5 Missouri	Pulverized Coal 570 MW	0.12 lb/mmbtu (30 day rolling avg) 0.13 lb/mmbtu (3 hour avg)	Final Permit 08-17-99 Dry Lime FGD
Springerville Units 3 and 4 Arizona	Pulverized Coal 450 MW each	8,448 lb/hr Units 1, 2, 3 & 4 (3 hour rolling avg) 10,800 tpy Units 1, 2, 3 & 4	Final Permit 04-29-02 Dry Lime FGD Netted with Units 1 and 2 – no increase in facility SO ₂ emissions.
Holcomb Unit 2 Kansas	Pulverized Coal 660 MW	0.12 lb/mmbtu (30 day rolling avg)	Final Permit 10-08-02 Dry Lime FGD
Thoroughbred Units 1 and 2 Kentucky	Pulverized Coal 750 MW each	0.167 lb/mmbtu (30 day rolling avg) 0.41 lb/mmbtu (24 hour avg)	Final Permit 10-11-02 Wet Limestone FGD
Bull Mountain Roundup Units 1 and 2 Montana	Pulverized Coal 390 MW each	0.12 lb/mmbtu (24 hour avg) 0.15 lb/mmbtu (1 hour avg)	Final Permit 07-21-03 Dry Lime FGD
Plum Point Energy Station Unit 1 Arkansas	Pulverized Coal 550 – 800 MW	0.16 lb/mmbtu (3 hour rolling avg)	Final Permit 08-20-03 Dry Lime FGD
Rocky Mountain Power, Hardin Unit 1 Montana	Pulverized Coal 113 MW	0.15 lb/mmbtu (30 day rolling avg)	Final Permit 06-11-02 Wet Lime FGD
Council Bluffs Energy Center Unit 4 Iowa	Pulverized Coal 750 MW	0.10 lb/mmbtu (30 day rolling avg) 3,362 tpy	Final Permit 06-17-03 Dry Lime FGD
Elm Road Generating Station, Units 1 and 2 Wisconsin	Pulverized Coal 600 MW each (6,180 mmbtu/hr)	0.15 lb/mmbtu (30 day rolling avg) 1,150 lb/hr (3 hr rolling avg) 1,050 lb/hr (24 hr rolling avg)	Final Permit 01-14-04 Wet Limestone FGD Emission limit includes normal operation, startup and shutdown.
Longview Power Unit 1 West Virginia	Pulverized Coal 600 MW (6,114 mmbtu/hr)	0.12 lb/mmbtu (24 hour rolling avg) 0.15 lb/mmbtu (3 hour rolling avg) 0.095 lb/mmbtu (annual avg)	Final Permit 03-02-04 Wet Limestone FGD
Prairie State Generating Station Units 1 and 2 Illinois	Pulverized Coal 750 MW each (7,450 mmbtu/hr)	0.182 lb/mmbtu (30 day rolling avg)	Draft Permit 03-08-04 Wet Limestone FGD
Hastings Utilities Whelan Energy Center Unit 2 Nebraska	Pulverized Coal 220 MW 2,210 mmbtu/hr	0.12 lb/mmbtu (30 day rolling avg)	Final Permit 03-30-04 Dry Lime FGD
Santee Cooper Cross Generating Station Units 3 and 4 South Carolina	Pulverized Coal 660 MW each (5,400 mmbtu/hr)	0.25 lb/mmbtu (30 day rolling avg) 0.13 lb/mmbtu (365 day rolling avg)	Final Permit 08-05-04 Wet Limestone FGD
Intermountain Power Project Unit 3 Utah	Pulverized Coal 950 MW (9,050 mmbtu/hr)	0.09 lb/mmbtu (30 day rolling avg) 0.10 lb/mmbtu (24 hr block avg) 1,357.5 lb/hr (3-hr-block-avg)	Final Permit 10-15-04 Wet Limestone FGD Specific startup plan

**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
SO₂ Limits (continued)**

Name	Type/Size	SO₂ Limit	Comments
Wisconsin Public Service Weston Power Plant Unit 4 Wisconsin	Pulverized Coal 500 MW (5,173 mmbtu/hr)	0.10 lb/mmbtu (30 day rolling avg) 0.09 lb/mmbtu (12 month rolling avg)	Final Permit 10-18-04 Dry Lime FGD Limits include periods of startup and shutdown
Xcel Comanche Unit 3 Colorado	Pulverized Coal 750 MW 7,421 mmbtu/hr	0.10 lb/mmbtu (30 day rolling avg)	Final Permit 07-05-05 Dry Lime FGD Specific startup provisions
Black Hills WYGEN Unit 2 Wyoming	Pulverized Coal 100 MW	0.10 lb/mmbtu (30 day rolling avg) 0.12 lb/mmbtu (3 hour block avg)	Revised Permit 07-11-05 Unit size reduced to 100 MW Dry Lime FGD

All the permits above, except Bull Mountain Roundup, Elm Road Generating Station, Weston Unit 4 and Xcel Comanche, exempt startup, shutdown and malfunction in the short term (1 hour, 3 hour, 24 hour and 30 day) emission limits.



**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
CO Limits**

Name	Type/Size	CO Limit	Comments
Hawthorne Unit 5 Missouri	Pulverized Coal 570 MW	0.16 lb/mmbtu	Final Permit 08-17-99 Combustion control CEMS not required Stack test used for compliance
Springerville Units 3 and 4 Arizona	Pulverized Coal 450 MW each	0.15 lb/mmbtu (30 day rolling average)	Final Permit 04-29-02 Combustion control CEMS used for compliance
Holcomb Unit 2 Kansas	Pulverized Coal 660 MW	0.15 lb/mmbtu	Final Permit 10-08-02 Combustion control CEMS not required Stack test used for compliance If CO and NOx limit cannot be met simultaneously, State will revise CO limit.
Thoroughbred Units 1 and 2 Kentucky	Pulverized Coal 750 MW each	0.10 lb/mmbtu (30 day rolling avg)	Final Permit 10-11-02 Combustion control CEMS used for compliance
Bull Mountain Roundup Units 1 and 2 Montana	Pulverized Coal 390 MW each	0.15 lb/mmbtu	Final Permit 07-21-03 Combustion control CEMS not required Stack test used for compliance
Plum Point Energy Station Unit 1 Arkansas	Pulverized Coal 550 – 800 MW	0.16 lb/mmbtu	Final Permit 08-20-03 Combustion control CEMS used for compliance
Rocky Mountain Power, Hardin Unit 1 Montana	Pulverized Coal 113 MW	0.15 lb/mmbtu	Final Permit 06-11-02 Combustion control CEMS not required Stack test used for compliance
Council Bluffs Energy Center Unit 4 Iowa	Pulverized Coal 750 MW	0.154 lb/mmbtu (1 day avg) 5,177 tpy	Final Permit 06-17-03 Combustion control CEMS used for compliance If CO and NOx limit cannot be met simultaneously, State will revise CO limit.
Elm Road Generating Station, Units 1 and 2 Wisconsin	Pulverized Coal 600 MW each (6,180 mmbtu/hr)	0.12 lb/mmbtu (24 hr rolling avg) 742 lb/hr (24 hr rolling avg) 2,400 lb/hr (1 hr avg) 3,250 tons (12 month rolling total)	Final Permit 01-14-04 Combustion control CEMS used for compliance. Emission limit excludes startup and shutdown. 12 month rolling total includes all operation, startup and shutdown.
Longview Power Unit 1 West Virginia	Pulverized Coal 600 MW (6,114 mmbtu/hr)	0.11 lb/mmbtu (3 hr rolling avg)	Final Permit 03-02-04 Combustion control CEMS used for compliance
Prairie State Generating Station Units 1 and 2 Illinois	Pulverized Coal 750 MW each (7,450 mmbtu/hr)	0.12 lb/mmbtu (24 hour block avg)	Draft Permit 03-08-04 Combustion control CEMS used for compliance
Hastings Utilities Whelan Energy Center Unit 2 Nebraska	Pulverized Coal 220 MW 2,210 mmbtu/hr	0.15 lb/mmbtu (3 hr avg)	Final Permit 03-30-04 Combustion control CEMS used for compliance

**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
CO Limits (continued)**

Name	Type/Size	CO Limit	Comments
Santee Cooper Cross Generating Station Units 3 and 4 South Carolina	Pulverized Coal 660 MW each (5,400 mmbtu/hr)	0.16 lb/mmbtu	Final Permit 08-05-04 Combustion control CEMS not required Stack test used for compliance
Intermountain Power Project Unit 3 Utah	Pulverized Coal 950 MW (9,050 mmbtu/hr)	0.15 lb/mmbtu (30 day rolling avg) 3,000 lb/hr (8 hr block avg)	Final Permit 10-15-04 Combustion control CEMS (or equivalent) used for compliance
Wisconsin Public Service Weston Power Plant Unit 4 Wisconsin	Pulverized Coal 500 MW (5,173 mmbtu/hr)	0.15 lb/mmbtu (1 day avg) 3,399 tons/yr (12 month rolling avg)	Final Permit 10-18-04 Combustion control CEMS used for compliance 12 month rolling avg limit includes periods of startup and shutdown
Xcel Comanche Unit 3 Colorado	Pulverized Coal 750 MW 7,421 mmbtu/hr	0.13 lb/mmbtu (8 hr rolling avg) 0.30 lb/mmbtu (during startup)	Final Permit 07-05-05 Combustion control CEMS used for compliance Specific startup provisions
Black Hills WYGEN Unit 2 Wyoming	Pulverized Coal 100 MW	0.15 lb/mmbtu	Revised Permit 07-11-05 Unit size reduced to 100 MW Combustion control CEMS not required Stack test used for compliance

All the permits above, except Bull Mountain Roundup and Xcel Comanche, exempt startup, shutdown and malfunction in the short term (1 hour, 3 hour, 24 hour and 30 day) emission limits.

**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
VOC Limits**

Name	Type/Size	VOC Limit	Comments
Hawthorne Unit 5 Missouri	Pulverized Coal 570 MW	0.0036 lb/mmbtu	Final Permit 08-17-99 Combustion control Stack test used for compliance
Springerville Units 3 and 4 Arizona	Pulverized Coal 450 MW each	0.06 lb/ton coal (3 hr avg)	Final Permit 04-29-02 Combustion control Stack test used for compliance
Holcomb Unit 2 Kansas	Pulverized Coal 660 MW	0.0035 lb/mmbtu	Final Permit 10-08-02 Combustion control Stack test used for compliance If VOC and NOx limit cannot be met simultaneously, State will revise VOC limit
Thoroughbred Units 1 and 2 Kentucky	Pulverized Coal 750 MW each	0.0072 lb/mmbtu (30 day rolling avg)	Final Permit 10-11-02 Combustion control Compliance with CO limit used to demonstrate compliance with VOC limit
Bull Mountain Roundup Units 1 and 2 Montana	Pulverized Coal 390 MW each	0.0030 lb/mmbtu	Final Permit 07-21-03 Combustion control Stack tests not required
Plum Point Energy Station Unit 1 Arkansas	Pulverized Coal 550 – 800 MW	0.02 lb/mmbtu	Final Permit 08-20-03 Combustion control Initial Stack test used for compliance
Rocky Mountain Power, Hardin Unit 1 Montana	Pulverized Coal 113 MW	0.0034 lb/mmbtu	Final Permit 06-11-02 Combustion control Stack tests not required
Council Bluffs Energy Center Unit 4 Iowa	Pulverized Coal 750 MW	0.0036 lb/mmbtu	Final Permit 06-17-03 Combustion control Initial Stack test used for compliance
Elm Road Generating Station, Units 1 and 2 Wisconsin	Pulverized Coal 600 MW each (6,180 mmbtu/hr)	0.0035 lb/mmbtu (24 hr rolling avg)	Final Permit 01-14-04 Combustion control Initial Stack test used for compliance Emission limit excludes startup and shutdown
Longview Power Unit 1 West Virginia	Pulverized Coal 600 MW (6,114 mmbtu/hr)	0.004 lb/mmbtu (3 hr rolling avg)	Final Permit 03-02-04 Combustion control Stack tests used for compliance
Prairie State Generating Station Units 1 and 2 Illinois	Pulverized Coal 750 MW each (7,450 mmbtu/hr)	0.004 lb/mmbtu (3 hr block avg)	Draft Permit 03-08-04 Combustion control Stack tests used for compliance
Hastings Utilities Whelan Energy Center Unit 2 Nebraska	Pulverized Coal 220 MW 2,210 mmbtu/hr	No limit	Final Permit 03-30-04 Under PSD threshold for VOC
Santee Cooper Cross Generating Station Units 3 and 4 South Carolina	Pulverized Coal 660 MW each (5,400 mmbtu/hr)	0.0024 lb/mmbtu	Final Permit 08-05-04 Combustion control Initial Stack test used for compliance
Intermountain Power Project Unit 3 Utah	Pulverized Coal 950 MW (9,050 mmbtu/hr)	0.0027 lb/mmbtu (3 test run avg)	Final Permit 10-15-04 Annual stack test for compliance



**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
VOC Limits (continued)**

Name	Type/Size	VOC Limit	Comments
Wisconsin Public Service Weston Power Plant Unit 4 Wisconsin	Pulverized Coal 500 MW (5,173 mmbtu/hr)	0.0036 lb/mmbtu (1 day avg) 81.6 tons/yr (12 month rolling avg)	Final Permit 10-18-04 Combustion control Stack tests used for compliance 12 month rolling avg limit includes periods of startup and shutdown
Xcel Comanche Unit 3 Colorado	Pulverized Coal 750 MW 7,421 mmbtu/hr	0.0035 lb/mmbtu	Final Permit 07-05-05 Combustion control Stack tests used for compliance
Black Hills WYGEN Unit 2 Wyoming	Pulverized Coal 100 MW	0.01 lb/mmbtu	Revised Permit 07-11-05 Unit size reduced to 100 MW Combustion control Initial Stack test used for compliance

All the permits above, except Bull Mountain Roundup, exempt startup, shutdown and malfunction in the short term (1 hour, 3 hour, 24 hour and 30 day) emission limits.

**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
PM₁₀ and Opacity Limits**

Name	Type/Size	PM₁₀ / Opacity Limit	Comments
Hawthorne Unit 5 Missouri	Pulverized Coal 570 MW	0.018 lb/mmbtu 20% Opacity	Final Permit 08-17-99 Fabric Filter Compliance based on annual test Condensable PM ₁₀ not specified
Springerville Units 3 and 4 Arizona	Pulverized Coal 450 MW each	0.015 lb/mmbtu (PM) (3 hr rolling avg) 0.055 lb/mmbtu (PM ₁₀) (3 hr rolling avg) 15% Opacity	Final Permit 04-29-02 Fabric Filter Compliance based on annual test PM limit is filterable only. PM ₁₀ limit. includes filterable and condensable
Holcomb Unit 2 Kansas	Pulverized Coal 660 MW	0.018 lb/mmbtu 20% Opacity	Final Permit 10-08-02 Fabric Filter Compliance based on 3 2-hr stack tests Condensable PM ₁₀ not specified
Thoroughbred Units 1 and 2 Kentucky	Pulverized Coal 750 MW each	0.018 lb/mmbtu (3 hr avg) 20% Opacity	Final Permit 10-11-02 Electrostatic Precipitator Limit is filterable PM ₁₀ only
Bull Mountain Roundup Units 1 and 2 Montana	Pulverized Coal 390 MW each	0.015 lb/mmbtu 20% Opacity	Final Permit 07-21-03 Fabric Filter Limit may be reduced to 0.012 lb/MMBtu based on performance test Condensable PM ₁₀ not specified
Plum Point Energy Station Unit 1 Arkansas	Pulverized Coal 550 – 800 MW each	0.018 lb/mmbtu 10% Opacity	Final Permit 08-20-03 Fabric Filter Limit is filterable PM ₁₀ only
Rocky Mountain Power, Hardin Unit 1 Montana	Pulverized Coal 113 MW	0.015 lb/mmbtu 20% Opacity	Final Permit 06-11-02 Multiclones and Wet Lime FGD Limit is filterable PM ₁₀ only.
Council Bluffs Energy Center Unit 4 Iowa	Pulverized Coal 750 MW	0.025 lb/mmbtu 5% Opacity (1 hr avg)	Final Permit 06-17-03 Fabric Filter Limit is filterable plus condensable PM ₁₀
Elm Road Generating Station, Units 1 and 2 Wisconsin	Pulverized Coal 600 MW each (6,180 mmbtu/hr)	0.018 lb/mmbtu (3 hr rolling avg) 20% Opacity	Final Permit 01-14-04 Fabric Filter Stack tests used for compliance (initial and every 24 months thereafter). Test Methods 5/5B and 202 to be used to demonstrate compliance
Longview Power Unit 1 West Virginia	Pulverized Coal 600 MW (6,114 mmbtu/hr)	0.018 lb/mmbtu (6 hr rolling avg) 10% Opacity (6 minute avg)	Final Permit 03-02-04 Dry Sorbent Injection/Fabric Filter Limit is filterable plus condensable PM ₁₀ Stack tests used for compliance
Prairie State Generating Station Units 1 and 2 Illinois	Pulverized Coal 750 MW each (7,450 mmbtu/hr)	0.015 lb/mmbtu (3 hr block avg) 20% Opacity	Draft Permit 03-08-04 Electrostatic Precipitator/Wet Limestone FGD/Wet Electrostatic Precipitator Limit is filterable PM ₁₀ only Stack tests used for compliance
Hastings Utilities Whelan Energy Center Unit 2 Nebraska	Pulverized Coal 220 MW 2,210 mmbtu/hr	0.018 lb/mmbtu (3 test run avg) 20% Opacity	Final Permit 03-30-04 Fabric Filter
Santee Cooper Cross Generating Station Units 3 and 4 South Carolina	Pulverized Coal 660 MW each (5,400 mmbtu/hr)	0.018 lb/mmbtu (30 day rolling avg) 20% Opacity	Final Permit 08-05-04 Electrostatic Precipitator Limit includes filterable and condensable PM ₁₀ Initial Stack test used for compliance

**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
PM₁₀ and Opacity Limits (continued)**

Name	Type/Size	PM₁₀ / Opacity Limit	Comments
Intermountain Power Project Unit 3 Utah	Pulverized Coal 950 MW (9,050 mmbtu/hr)	0.012 lb/mmbtu (3 test run avg) 221 lb/hr filterable & condensable (24 hr block avg) 10% Opacity	Final Permit 10-15-04 Fabric Filter Annual stack test Specific startup plan
Wisconsin Public Service Weston Power Plant Unit 4 Wisconsin	Pulverized Coal 500 MW (5,173 mmbtu/hr)	0.018 lb/mmbtu (3 hour rolling avg) 20% Opacity	Final Permit 10-18-04 Fabric Filter Limit includes filterable and condensable PM ₁₀ Stack tests used for compliance
Xcel Comanche Unit 3 Colorado	Pulverized Coal 750 MW 7,421 mmbtu/hr	0.012 lb/mmbtu (filterable) (3 hr rolling avg) 0.020 lb/mmbtu (filterable & condensable) (3 hr rolling avg) 10% Opacity	Final Permit 07-05-05 Fabric Filter Annual stack tests used for compliance Opacity during startup limited to 20%
Black Hills WYGEN Unit 2 Wyoming	Pulverized Coal 100 MW	0.012 lb/mmbtu 20% Opacity	Revised Permit 07-11-05 Unit size reduced to 100 MW Fabric Filter Limit is filterable PM ₁₀ only

All the permits above, except Bull Mountain Roundup, exempt startup, shutdown and malfunction in the short term (1 hour, 3 hour, 24 hour and 30 day) emission limits.

**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
H₂SO₄ Limits**

Name	Type/Size	H ₂ SO ₄ Limit	Comments
Hawthorne Unit 5 Missouri	Pulverized Coal 570 MW	No Limit	Final Permit 08-17-99 Dry Lime FGD
Springerville Units 3 and 4 Arizona	Pulverized Coal 450 MW each	0.0115 lb/mmbtu	Final Permit 04-29-02 Dry Lime FGD
Holcomb Unit 2 Kansas	Pulverized Coal 660 MW	No Limit	Final Permit 10-08-02 Dry Lime FGD Under PSD threshold for H ₂ SO ₄
Thoroughbred Units 1 and 2 Kentucky	Pulverized Coal 750 MW each	0.00497 lb/mmbtu	Final Permit 10-11-02 Wet Limestone FGD
Bull Mountain Roundup Units 1 and 2 Montana	Pulverized Coal 390 MW each	0.0064 lb/mmbtu	Final Permit 07-21-03 Dry Lime FGD
Plum Point Energy Station Unit 1 Arkansas	Pulverized Coal 550 – 800 MW	0.0061 lb/mmbtu	Final Permit 08-20-03 Dry Lime FGD
Rocky Mountain Power, Hardin Unit 1 Montana	Pulverized Coal 113 MW	No Limit	Final Permit 06-11-02 Wet Lime FGD Under PSD threshold for H ₂ SO ₄
Council Bluffs Energy Center Unit 4 Iowa	Pulverized Coal 750 MW	0.00421 lb/mmbtu	Final Permit 06-17-03 Dry Lime FGD
Elm Road Generating Station, Units 1 and 2 Wisconsin	Pulverized Coal 600 MW each (6,180 mmbtu/hr)	0.010 lb/mmbtu (24-hour average)	Final Permit 01-14-04 Wet Limestone FGD and Wet ESP Stack tests used for compliance (initial and every 60 months thereafter)
Longview Power Unit 1 West Virginia	Pulverized Coal 600 MW (6,114 mmbtu/hr)	0.0075 lb/mmbtu (3 hr rolling avg)	Final Permit 03-02-04 Dry Sorbent Injection/Fabric Filter/Wet Limestone FGD Stack tests used for compliance
Prairie State Generating Station Units 1 and 2 Illinois	Pulverized Coal 750 MW each (7,450 mmbtu/hr)	0.005 lb/mmbtu (3 hr block avg)	Draft Permit 03-08-04 Electrostatic Precipitator/Wet Limestone FGD/Wet Electrostatic Precipitator Limit is filterable PM ₁₀ only Stack tests used for compliance
Hastings Utilities Whelan Energy Center Unit 2 Nebraska	Pulverized Coal 220 MW 2,210 mmbtu/hr	No limit	Final Permit 03-30-04 Dry Lime FGD Under PSD threshold for H ₂ SO ₄
Santee Cooper Cross Generating Station Units 3 and 4 South Carolina	Pulverized Coal 660 MW each (5,400 mmbtu/hr)	0.0014 lb/mmbtu (365 day rolling avg)	Final Permit 08-05-04 Wet Limestone FGD Initial Stack test used for compliance
Intermountain Power Project Unit 3 Utah	Pulverized Coal 950 MW (9,050 mmbtu/hr)	0.0044 lb/mmbtu (24 hr block avg)	Final Permit 10-15-04 Wet Limestone FGD Annual stack test used for compliance

**Pulverized Coal Electric Utility Boilers
Recently Issued PSD Permits
H₂SO₄ Limits (continued)**

Name	Type/Size	H₂SO₄ Limit	Comments
Wisconsin Public Service Weston Power Plant Unit 4 Wisconsin	Pulverized Coal 500 MW (5,173 mmbtu/hr)	0.005 lb/mmbtu (24 hour avg)	Final Permit 10-18-04 Dry Lime FGD Initial stack test used for compliance
Xcel Comanche Unit 3 Colorado	Pulverized Coal 750 MW 7,421 mmbtu/hr	0.0042 lb/mmbtu	Final Permit 07-05-05 Dry Lime FGD Annual stack test used for compliance Limit could be reduced to 0.0034 lb/mmbtu based on test results
Black Hills WYGEN Unit 2 Wyoming	Pulverized Coal 100 MW	No Limit	Revised Permit 07-11-05 Unit size reduced to 100 MW Dry Lime FGD Initial stack test



TABLE E-1
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for CO
 Coal Fired PC Boilers

RBLCD ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit	Averaging Period	Permit Date and Permit No.
NV-0036	Newmont Nevada Energy Investment, Inc. TS Power Plant Nevada	1	Coal Fired Boiler 2030 MMBTU/HR	Good Combustion Controls	not given	0.15 lb/MMBTU	24-hour	5/05/2005 No. AP4911-1349
NE-0018	Hastings Utilities Whelan Energy Center Nebraska	1	Coal Fired Boiler 2210 MMBTU/HR	Good Combustion Controls	not given	0.15 lb/MMBTU	Not Provided	3/30/2004 No. 58048
SC-0104	Santee Cooper Santee Cooper Cross Generation Station South Carolina	2	Coal Fired Boiler 5700 MMBTU/HR	Good Combustion Controls	not given	0.16 lb/MMBTU	Not Provided	02/05/2004 No. 0420-0030-CI
TX-0298	Reliant Energy Inc WA Parish Electric Generating Station Texas	2	Coal Fired Boiler 7400 MMBTU/HR	Combustion Controls	not given	0.292 lb/MMBTU Each Unit	Not Provided	10/15/2003 No. PSD-TX-901
TX-0298	Reliant Energy Inc WA Parish Electric Generating Station Texas	1	Coal Fired Boiler 6700 MMBTU/HR	Combustion Controls	not given	0.282 lb/MMBTU	Not Provided	10/15/2003 No. PSD-TX-33M1
AR-0074	Plum Point Associates, LLC Plum Point Energy Arkansas	1	Coal Fired Boiler 800 MW	Combustion Controls	not given	0.16 lb/MMBTU	Not Provided	8/20/2003 No. 1995-AOP-RO
MT-0022	Bull Mountain Development Company Bull Mountain, No. 1, LLC - Roundup Power Project Montana	2	Pulverized Coal Fired Boiler 390 MW	Not Given	not given	Primary = 602 lb/hr Secondary = 0.15 lb/MMBTU	Not Provided	7/21/2003 No. 3182-00
IA-0067	Mid American Energy Company Council Bluffs Energy Council Iowa	1	Pulverized Coal Fired Boiler 7675 MMBTU/HR	Combustion Controls	not given	Primary = 0.154 lb/MMBTU (1 calendar average) Secondary = 5177 tons/yr	Not Provided	6/17/2003 No. 02-528
TX-0358	Reliant Energy, Inc. Washington Parish Electric Generating Station Texas	2	Coal Fired Boiler 6750 MMBTU/HR	Combustion Controls	not given	Primary = 2168 lb/hr Secondary = 9496 tons/yr	Not Provided	10/15/2002 PSD-TX-33 M1
TX-0358	Reliant Energy, Inc. Washington Parish Electric Generating Station Texas	1	Coal Fired Boiler 6700 MMBTU/HR	Combustion Controls	not given	Primary = 1891 lb/hr Secondary = 8281 tons/yr	Not Provided	10/15/2002 PSD-TX-33 M1
KY-0084	Thoroughbred Generating Company, LLC Thoroughbred Generating Station Kentucky	2	Coal Fired Boiler 7446 MMBTU/HR	Boiler Design and Operation	not given	0.10 MMBTU/hr	30-day rolling average	10/11/2002 No. V-02-001
WY-0057	Black Hills Corporation Wygen Wyoming	1	Pulverized Coal Fired Boiler 500 MW	Good Combustion Controls	not given	0.15 lb/MMBTU	Not Provided	9/25/2002 No. CT-3030
MT-0027	Rocky Mountain Power, Inc. Hardin Generator Project Montana	1	Pulverized Coal Fired Boiler 1304 MMBTU/HR	Not Given	not given	0.15 lb/MMBTU	Not Provided	6/11/2002 No. 3185-00
FL-0003	Tampa Electric Company TECC-Big Bend Station Tampa, Florida	1	Dry Bottom Tangentially Fired Boiler 4330 MMBTU/HR	Boiler Design and Operation	not given	Primary = 0.029 lb/MMBTU Secondary = 124 lb/hr	Not Provided	01/01/2001 No. PSD-FL-040
MO-0050	Kansas City Power & Light Co. Hawthorn Station Kansas City, Missouri	1	Coal Fired Boiler 384 TPH	Good Combustion Practices	not given	0.16 lb/MMBTU	Not Provided	8/17/1999 No. 888

DEQ/AOD 000264

TABLE E-1
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for CO
 Coal Fired PC Boilers

RBLCL ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit		Averaging Period	Permit Date and Permit No.
UT-0053	Deseret Generation and Transmission Company Near Bonanza, Utah	1	Coal Fired Boiler 500 MW	Not Given	not given	602.45	TPY	Not Provided	3/16/1998 No. DAQE-186-98
AR-0069	Entergy-Arkansas, Inc. Independence Arkansas	1	Coal Fired Boiler 8700 MMBTU/hr	Good Combustion Practice	not given	Primary = 100 ppm (24-hr average)	Secondary = 3232 lb/hr	Not Provided	3/10/1998 No. 449-AOP-R0
WY-0039	Two Elk Generation Partners, LTD Wright, Wyoming	1	Pulverized Coal Fired Boiler 250 MW	No Controls Feasible	not given	0.15	lb/MMBTU	Not Provided	2/27/1998 No. CT-1352
WY-0047	ENCOAL Corporation North Rochelle Facility 15 miles SE Wright, Wyoming	1	Pulverized Coal Fired Boiler 3960 MMBTU/HR 240 MW	Combustion Technology	not given	0.15	lb/MMBTU	Not Provided	10/10/1997 No. CT-1324
WY-0048	Black Hills Power and Light Company Wygen Plant Gillette, Wyoming	1	Pulverized Coal Fired Boiler 80 MW	No Controls Feasible	not given	0.15	lb/MMBTU	Not Provided	9/6/1996 No. CT-1236
PA-0133	Mon Valley Energy LTD Poland Mines, Pennsylvania	1	Pulverized Coal Fired Boiler 966 MMBTU/hr 80 MW Cogen	No Controls Feasible	not given	Primary = .20 lb/MMBTU	Secondary = 847 TPY	Not Provided	8/8/1995 No. 30-306-001
NJ-0019	Crown/Vista Energy Project (CVEP) West Deptford, New Jersey	2	Pulverized Coal Fired Boilers 1789 MMBTU/hr each 181 MW each	Good Combustion Practice	not given	Primary = .11 lb/MMBTU	Secondary = 100 ppmvd @ 7%O ₂	Not Provided	10/1/1993 No. 01-92-0857
VA-0213	SEI Birchwood King George, Virginia SIC Code: 4931	1	Pulverized Coal Fired Boiler 2200 MMBTU/hr	Combustion Technology	not given	Primary = 440 lb/hr	Secondary = 1927 TPY	Not Provided	8/23/1993 No. 40809
WY-0046	Black Hills Power and Light Company Neil Simpson Plant Gillette, Wyoming	1	Pulverized Coal Fired Boiler Steam Electric Power 80 MW	Combustion Control	not given	Primary = .15 lb/MMBTU	Secondary = 152.0 lb/hr	Not Provided	4/14/1993 No. CT-1028
MI-0228	INDELK Energy Services of Otsego Michigan	1	Coal Fired Boiler 778 MMBTU/HR	Combustion Control	not given	0.10	lb/MMBTU	Not Provided	3/16/1993 No. 143-90
NC-0057	Roanoke Valley Project II Weldon Township, North Carolina	1	Pulverized Coal Fired Boiler 517 MMBTU/hr	Combustion Technology	not given	0.20	lb/MMBTU	Not Provided	11/20/1992 No. 6964R2
SC-0027	South Carolina Electric and Gas Company Cope, South Carolina	3	Pulverized Coal Fired Boiler Units 1, 2 and 3 385 MW each	Combustion Efficiency	not given	0.15	lb/MMBTU	Not Provided	7/15/1992 No. 1860-0044
FL-0044	Orlando Utilities Commission Stanton Energy Center, Unit 2 Orlando, Florida	1	Pulverized Coal Fired Boiler 4286 MMBTU/HR	Combustion Control	not given	0.15	lb/MMBTU	Not Provided	12/23/1991
NJ-0015	Keystone Cogeneration Systems, Inc. New Jersey	1	Pulverized Coal Fired Boiler 2116 MMBTU/hr	Advanced Combustion Control	not given	0.11	lb/MMBTU	Not Provided	9/6/1991 No. 01-89-3983

DEQ/AQD 000265

TABLE E-1
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for CO
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit		Averaging Period	Permit Date and Permit No.
VA-0181	Old Dominion Electric Cooperative Clover, Virginia	1	Coal Fired Boiler 4085 MMBTU/hr (≈ 400 MW)	Boiler Design	not given	0.10	lb/MMBTU	Not Provided	4/29/1991 No. 30867
NC-0054	Roanoke Valley Project Weldon, North Carolina	1	Pulverized Coal Fired Boiler 1700 MMBTU/HR	Combustion Control	not given	0.20	lb/MMBTU	Not Provided	1/24/1991 No. 6964
NJ-0014	Chambers Cogeneration Limited Partnership Carneys Point, New Jersey	2	Pulverized Coal Fired Boiler 1389 MMBTU/hr each	Advanced Combustion Control	not given	0.11	lb/MMBTU	Not Provided	12/26/1990 No. 01-89-3086
SC-0028	Santee Cooper Public Service Authority Moncks Comer, South Carolina	1	Pulverized Coal Fired Boiler Cross Unit No. 1 5200 MMBTU/hr (500 MW)	Combustion Efficiency	not given	0.10	lb/MMBTU	Not Provided	11/28/1990 No. 0420-0030
VA-0171	Mecklenburg Cogeneration Limited Mecklenburg, Virginia	4	Pulverized Coal Fired Boiler 834.5 MMBTU/hr each	Good Combustion Practices	not given	Primary = .20 lb/MMBTU	Secondary = 166.9 lb/hr	Not Provided	5/9/1990 No. 30861

Notes:

- NSR RACT/BACT/LAER Clearinghouse database (<http://www.epa.gov/ttn/catc>) was queried for the following:
- RBLC Determinations added during or after January 1995
 - SIC Code: 4911
 - Process Type Code: 11.100 - Coal Combustion

DEQ/AQD 000266

TABLE E-2
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for VOC
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit	Averaging Period	Permit Date and Permit No.
SC-0104	Sanjee Cooper Sanjee Cooper Cross Generation Station South Carolina	2	Coal Fired Boiler 5700 MMBTU/HR	Good Combustion Controls	not given	0.0024 lb/MMBTU	Not Provided	02/05/2004 No. 0420-0030-CI
AR-0074	Plum Point Associates, LLC Plum Point Energy Arkansas	1	Coal Fired Boiler 800 MW	Combustion Controls	not given	0.02 lb/MMBTU	Not Provided	8/20/2003 No. 1995-AOP-R0
MT-0022	Bull Mountain Development Company Bull Mountain, No. 1, LLC - Roundup Power Project Montana	2	Pulverized Coal Fired Boiler 390 MW	Not Given	not given	Primary = 12 lb/hr Secondary = 0.003 lb/MMBTU	Not Provided	7/21/2003 No. 3182-00
IA-0067	Mid American Energy Company Council Bluffs Energy Council Iowa	2	Pulverized Coal Fired Boiler 7675 MMBTU/HR	Combustion Controls	not given	Primary = 0.0036 lb/MMBTU (1-hr average) Secondary = 121 tons/yr	Not Provided	6/17/2003 No. 02-528
KY-0084	Thoroughbred Generating Company, LLC Thoroughbred Generating Station Kentucky	1	Coal Fired Boiler 7446 MMBTU/HR	Boiler Design and Operation	not given	0.0072 lb/MMBTU	30-day rolling average	10/11/2002 No. V-02-001
WY-0057	Black Hills Corporation Wygen Wyoming	1	Pulverized Coal Fired Boiler 500 MW	Good Combustion Control	not given	0.010 lb/MMBTU	Not Provided	9/25/2002 No. CT-3030
MT-0027	Rocky Mountain Power, inc. Hardin Generator Project Montana	1	Pulverized Coal Fired Boiler 1304 MMBTU/HR	Good Combustion Control	not given	0.0034 lb/MMBTU	Not Provided	6/11/2002 No. 3185-00
MO-0050	Kansas City Power & Light Co. Hawthorn Station Kansas City, Missouri	1	Coal Fired Boiler 384 TPH	Good Combustion Practices	not given	0.0036 lb/MMBTU	Not Provided	8/17/1999 No. 888
UT-0053	Deseret Generation and Transmission Company Near Bonanza, Utah	1	Coal Fired Boiler 500 MW	Good Combustion	not given	70.89 TPY	Not Provided	3/16/1998 No. DAQE-186-98
WY-0039	Two Elk Generation Partners, LTD Wright, Wyoming	1	Pulverized Coal Fired Boiler 250 MW	No Controls Feasible	not given	0.015 lb/MMBTU	Not Provided	2/27/1998 No. CT-1352
WY-0047	ENCOAL Corporation North Rochelle Facility 15 miles SE Wright, Wyoming	1	Pulverized Coal Fired Boiler 3960 MMBTU/HR 240 MW	Combustion Technology	not given	0.05 lb/MMBTU	Not Provided	10/10/1997 No. CT-1324
WY-0048	Black Hills Power and Light Company Wygen Plant Gillette, Wyoming	1	Pulverized Coal Fired Boiler 80 MW	No Controls Feasible	not given	0.015 lb/MMBTU	Not Provided	9/6/1996 No. CT-1236
PA-0133	Mon Valley Energy LTD Poland Mines, Pennsylvania	1	Pulverized Coal Fired Boiler 966 MMBTU/hr 80 MW Cogen	No Controls Feasible	not given	Primary = 0.01 lb/MMBTU Secondary = 42.3 TPY	Not Provided	8/8/1995 No. 30-306-001

DEQ/AQD 000267

TABLE E-2

NSR RACT/BACT/LAER Clearinghouse Database
BACT-PSD Sources for VOC

Coal Fired PC Boilers

RBLCL ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit		Averaging Period	Permit Date and Permit No.
NJ-0019	CrownVista Energy Project (CVEP) West Deptford, New Jersey	2	Pulverized Coal Fired Boilers 1789 MMBTU/hr each 181 MW each	Good Combustion Practice	not given	Primary = .0031 lb/MMBTU	Secondary = 4.5 ppmvd @ 7%O ₂	Not Provided	10/1/1993 No. 01-92-0857 Methane
VA-0213	SEI Birchwood King George, Virginia SIC Code: 4931	1	Pulverized Coal Fired Boiler 2200 MMBTU/hr	Combustion Technology	not given	Primary = 22 lb/hr	Secondary = 96.4 TPY	Not Provided	8/23/1993 No. 40809
WY-0046	Black Hills Power and Light Company Nell Simpson Plant Gillette, Wyoming	1	Pulverized Coal Fired Boiler 80 MW	Combustion Control	not given	Primary = 0.015 lb/MMBTU	Secondary = 15.0 lb/hr	Not Provided	4/14/1993 No. CT-1028
MI-0228	INDELK Energy Services of Otsego Michigan	1	Coal Fired Boiler 778 MMBTU/HR	Combustion Control	not given	0.01	lb/MMBTU	Not Provided	3/16/1993 No. 143-90
NC-0057	Roanoke Valley Project II Weldon Township, North Carolina	1	Pulverized Coal Fired Boiler 517 MMBTU/hr	Combustion Technology	not given	0.03	lb/MMBTU	Not Provided	11/20/1992 No. 6964R2
SC-0027	South Carolina Electric and Gas Company Cope, South Carolina	3	Pulverized Coal Fired Boiler Units 1, 2 and 3 385 MW each	Combustion Efficiency	not given	0.01	lb/MMBTU	Not Provided	7/15/1992 No. 1860-0044
FL-0044	Orlando Utilities Commission Stanton Energy Center, Unit 2 Orlando, Florida	1	Pulverized Coal Fired Boiler 4286 MMBTU/HR	Combustion Control	not given	0.015	lb/MMBTU	Not Provided	12/23/1991
NJ-0015	Keystone Cogeneration Systems, Inc. New Jersey	1	Coal Fired Boiler 2116 MMBTU/hr	Advanced Combustion Control	not given	0.0036	lb/MMBTU	Not Provided	9/6/1991 No. 01-89-3983
VA-0181	Old Dominion Electric Cooperative Clover, Virginia	1	Coal Fired Boiler 4085 MMBTU/hr (≈ 400 MW)	Boiler Design	not given	0.01	lb/MMBTU	Not Provided	4/29/1991 No. 30867
NC-0054	Roanoke Valley Project Weldon, North Carolina	1	Pulverized Coal Fired Boiler 1700 MMBTU/HR	Combustion Control	not given	0.03	lb/MMBTU	Not Provided	1/24/1991 No. 6964
NJ-0014	Chambers Cogeneration Limited Partnership Carneys Point, New Jersey	2	Pulverized Coal Fired Boiler 1389 MMBTU/hr each	Advanced Combustion Control	not given	0.0036	lb/MMBTU	Not Provided	12/26/1990 No. 01-89-3086
SC-0028	Santee Cooper Public Service Authority Moncks Corner, South Carolina	1	Pulverized Coal Fired Boiler Cross Unit No. 1 5200 MMBTU/hr (500 MW)	Combustion Efficiency	not given	0.012	lb/MMBTU	Not Provided	11/28/1990 No. 0420-0030
VA-0171	Mecklenburg Cogeneration Limited Mecklenburg, Virginia	4	Pulverized Coal Fired Boiler 834.5 MMBTU/hr each	Good Combustion Practices	not given	Primary = 0.0027 lb/MMBTU	Secondary = 2.3 lb/hr	Not Provided	5/9/1990 No. 30861

Notes:

DEQ/AQD 000268

TABLE E-3
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for PM
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit		Averaging Period	Permit Date and Permit No.
SC-0104	Santee Cooper Santee Cooper Cross Generation Station South Carolina	2	Coal Fired Boiler 5700 MMBTU/HR	ESP	not given	0.015 lb/MMBTU		Not Provided	02/05/2004 No. 0420-0030-CI
TX-0298	Reliant Energy Inc WA Parish Electric Generating Station Texas	2	Coal Fired Boiler 7400 MMBTU/HR	Combustion Controls	not given	0.088	lb/MMBTU Each Unit	Not Provided	10/15/2003 No. PSD-TX-901
TX-0298	Reliant Energy Inc WA Parish Electric Generating Station Texas	1	Coal Fired Boiler 6700 MMBTU/HR	Combustion Controls	not given	0.085	lb/MMBTU	Not Provided	10/15/2003 No. PSD-TX-33M1
IA-0067	Mjd American Energy Company Council Bluffs Energy Council Iowa	1	Pulverized Coal Fired Boiler 7675 MMBTU/HR	Baghouse	99.70%	0.027	lb/MMBTU	Not Provided	6/17/2003 No. 02-528
KY-0084	Thoroughbred Generating Company, LLC Thoroughbred Generating Station Kentucky	2	Coal Fired Boiler 7446 MMBTU/HR	ESP and WESP	99%	0.0180	lb/MMBTU	3-hour average	10/11/2002 No. V-02-001
WY-0057	Black Hills Corporation Wygen Wyoming	1	Pulverized Coal Fired Boiler 500 MW	Fabric Filter	not given	0.012	lb/MMBTU	Not Provided	9/25/2002 No. CT-3030
WY-0039	Two Elk Generation Partners, LTD Wright, Wyoming	1	Pulverized Coal Fired Boiler 250 MW	Fabric Filter	99.50%	0.02	lb/MMBTU	Not Provided	2/27/1998 No. CT-1352
WY-0047	ENCOAL Corporation North Rochelle Facility 15 miles SE Wright, Wyoming	1	Pulverized Coal Fired Boiler 3960 MMBTU/HR 240 MW	Fabric Filter	99%	0.02	lb/MMBTU	Not Provided	10/10/1997 No. CT-1324
WY-0048	Black Hills Power and Light Company Wygen Plant Gillette, Wyoming	1	Pulverized Coal Fired Boiler 80 MW	Electrostatic Precipitator	99%	0.02	lb/MMBTU	Not Provided	9/6/1996 No. CT-1236
NJ-0019	Crown/Vista Energy Project (CVEP) West Deptford, NJ	2	Pulverized Coal Fired Boilers 1789 MMBTU/hr each 181 MW each	Fabric Filters	99.9%	Primary = 32.2 lb/hr	Secondary = 0.018 lb/MMBTU	Not Provided	10/1/1993 No. 01-92-0857
VA-0213	SEI Birchwood King George, VA SIC Code: 4931	1	Pulverized Coal Fired Boiler 2200 MMBTU/hr	Fabric Filter	99.9%	Primary = 44 lb/hr	Secondary = 192.7 TPY	Not Provided	8/23/1993 No. 40809
WY-0046	Black Hills Power and Light Company Neil Simpson Plant Gillette, Wyoming	1	Pulverized Coal Fired Boiler 80 MW	Electrostatic Precipitator	99%	Primary = .02 lb/MMBTU	Secondary = 20.0 lb/hr	Not Provided	4/14/1993 No. CT-1028
MI-0228	INDELK Energy Services of Otsego Michigan	1	Coal Fired Boiler 778 MMBTU/HR	Fabric Filter	99.9%	0.03	lb/MMBTU	Not Provided	3/16/1993 No. 143-90

DEQ/AQD 000269

TABLE E-3
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for PM
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit		Averaging Period	Permit Date and Permit No.
NC-0057	Roanoke Valley Project II Weldon Township, NC	1	Pulverized Coal Fired Boiler 517 MMBTU/hr	Fabric Filter	99.75%	0.02	lb/MMBTU	Not Provided	11/20/1992 No. 6964R2
SC-0027	South Carolina Electric and Gas Company Cope, South Carolina	3	Pulverized Coal Fired Boiler 385 MW each	Fabric Filters	99.5%	0.02	lb/MMBTU	Not Provided	7/15/1992 No. 1860-0044
FL-0044	Orlando Utilities Commission Stanton Energy Center, Unit 2 Orlando, Florida	1	Pulverized Coal Fired Boiler 4286 MMBTU/HR	Electrostatic Precipitator	not given	0.02	lb/MMBTU	Not Provided	12/23/1991
VA-0181	Old Dominion Electric Cooperative Clover, Virginia	1	Coal Fired Boiler 4085 MMBTU/hr (400 MW)	Fabric Filter	99.9%	0.02	lb/MMBTU	Not Provided	4/29/1991 No. 30867
NC-0054	Roanoke Valley Project Weldon, North Carolina	1	Pulverized Coal Fired Boiler 1700 MMBTU/HR	Fabric Filter	99%	0.02	lb/MMBTU	Not Provided	1/24/1991 No. 6964
SC-0028	Santee Cooper Public Service Authority Moncks Corner, South Carolina	1	Pulverized Coal Fired Boiler Cross Unit No. 1 5200 MMBTU/hr (500 MW)	Electrostatic Precipitator	99.5%	0.03	lb/MMBTU ¹	Not Provided	11/28/1990 No. 0420-0030
VA-0171	Mecklenburg Cogeneration Limited, Mecklenburg, VA	4	Pulverized Coal Fired Boiler 834.5 MMBTU/hr each	Fabric Filters	99.9%	Primary = .02 lb/MMBTU	Secondary = 16.7 lb/hr	Not Provided	5/9/1990 No. 30861

Notes:

DEQ/AQD 000270

TABLE E-4
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for PM₁₀
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit		Averaging Period	Permit Date and Permit No.
NV-0036	Newmont Nevada Energy Investment, Inc. TS Power Plant Nevada	1	Coal Fired Boiler 2030 MMBTU/HR	Fabric Filter	not given	0.038	lb/MMBTU	24-hour	5/05/2005 No. AP4911-1349
SC-0104	Santee Cooper Santee Cooper Cross Generation Station South Carolina	2	Coal Fired Boiler 5700 MMBTU/HR	ESP	not given	0.018 lb/MMBTU		Not Provided	02/05/2004 No. 0420-0030-CI
AR-0074	Plum Point Associates, LLC Plum Point Energy Arkansas	1	Coal Fired Boiler 800 MW	Baghouse	not given	0.018	lb/MMBTU	Not Provided	8/20/2003 No. 1995-AOP-R0
MT-0022	Bull Mountain Development Company Bull Mountain, No. 1, LLC - Roundup Power Project	2	Pulverized Coal Fired Boiler 390 MW	Fabric Filters	99.82%	Primary = 60.2 lb/hr	Secondary = 0.015 lb/MMBTU	Not Provided	7/21/2003 No. 3182-00
IA-0067	Mid American Energy Company Council Bluffs Energy Council Iowa	1	Pulverized Coal Fired Boiler 7675 MMBTU/HR	Baghouse	98.20%	0.025	lb/MMBTU	Not Provided	6/17/2003 No. 02-528
TX-0358	Reliant Energy, Inc. Washington Parish Electric Generating Station Texas	2	Coal Fired Boiler 6750 MMBTU/HR	not given	not given	Primary = 657 lb/hr	Secondary = 2878 tons/yr	Not Provided	10/15/2002 PSD-TX-33 M1
TX-0358	Reliant Energy, Inc. Washington Parish Electric Generating Station Texas	1	Coal Fired Boiler 6700 MMBTU/HR	Combustion Control	not given	Primary = 573 lb/hr	Secondary = 2509 tons/yr	Not Provided	10/15/2002 PSD-TX-33 M1
MO-0050	Kansas City Power & Light Co. Hawthorn Station Kansas City, Missouri	1	Coal Fired Boiler 384 TPH	Fabric Filter	not given	0.018	lb/MMBTU	Not Provided	8/17/1999 No. 888
MT-0027	Rocky Mountain Power, Inc. Hardin Generator Project Montana	1	Pulverized Coal Fired Boiler 1304 MMBTU/HR	Multicyclone used in conjunction with wet scrubber	not given	0.015	lb/MMBTU	Not Provided	6/11/2002 No. 3185-00
FL-0178	JEA Northside Generating Station Jacksonville, Florida	1	Coal Fired Boiler 2764 MMBTU/hr	Fabric Filter or Electrostatic Precipitator	not given	0.011	lb/MMBTU	3-hour average	7/14/1999 No. PSD-FL-265
UT-0053	Deseret Generation and Transmission Company Near Bonanza, Utah	1	Coal Fired Boiler 500 MW	Fabric Filter	99.8%	0.0286	lb/MMBTU ¹	Not Provided	3/16/1998 No. DAQE-186-98
PA-0133	Mon Valley Energy LTD Poland Mines, Pennsylvania	1	Pulverized Coal Fired Boiler (Unit 2) 966 MMBTU/hr (97 MW)	Fabric Filter	99.95%	Primary = 0.15 lb/MMBTU	Secondary = 63.5 TPY	Not Provided	8/8/1995 No. 30-306-001
UT-0060	Desert Generation and Transmission Co. Utah	1	Coal Fired Boiler 4381 MMBTU/hr	Fabric Filter	not given	0.03	lb/MMBTU	Not Provided	6/14/1995 No. DAQE-523-95

DEQ/AQD 000271

TABLE E-4
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for PM₁₀
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit		Averaging Period	Permit Date and Permit No.
NJ-0019	Crown/Vista Energy Project (CVEP) West Deptford, New Jersey	2	Pulverized Coal Fired Boilers 1789 MMBTU/hr each 181 MW each	Fabric Filters	99.9%	Primary = 32.2 lb/hr	Secondary = 0.018 lb/MMBTU	Not Provided	10/1/1993 No. 01-92-0857
VA-0213	SEI Birchwood King George, Virginia SIC Code: 4931	1	Pulverized Coal Fired Boiler 2200 MMBTU/hr	Fabric Filter	99.9%	Primary = 39.6 lb/hr	Secondary = 173.5 TPY	Not Provided	8/23/1993 No.40809
NC-0057	Roanoke Valley Project II Weldon Township, North Carolina	1	Pulverized Coal Fired Boiler 517 MMBTU/hr	Fabric Filter	99.75%	0.018	lb/MMBTU	Not Provided	11/20/1992 No. 6964R2
SC-0027	South Carolina Electric and Gas Company Cope, South Carolina	3	Pulverized Coal Fired Boiler 385 MW each	Fabric Filters	99.5%	0.018	lb/MMBTU	Not Provided	7/15/1992 No. 1860-0044
FL-0044	Orlando Utilities Commission Stanlon Energy Center, Unit 2 Orlando, Florida	1	Pulverized Coal Fired Boiler 4286 MMBTU/HR	Electrostatic Precipitator	not given	0.02	lb/MMBTU	Not Provided	12/23/1991
NJ-0015	Keystone Cogeneration Systems, Inc. New Jersey	1	Coal Fired Utility Boiler 2116 MMBTU/hr	Fabric Filter	99.9%	0.018	lb/MMBTU	Not Provided	9/6/1991 No.01-89-3983
VA-0181	Old Dominion Electric Cooperative Clover, Virginia	1	Coal Fired Boiler 4085 MMBTU/hr (400 MW)	Fabric Filter	99.9%	0.018	lb/MMBTU	Not Provided	4/29/1991 No. 30867
NC-0054	Roanoke Valley Project Weldon, North Carolina	1	Pulverized Coal Fired Boiler 1700 MMBTU/HR	Fabric Filter	99%	0.018	lb/MMBTU	Not Provided	1/24/1991 No. 6964
NJ-0014	Chambers Cogeneration Limited Partnership Carneys Point, New Jersey	2	Pulverized Coal Fired Boiler 1389 MMBTU/hr each	Fabric Filters	99.9%	0.018	lb/MMBTU	Not Provided	12/26/1990 No. 01-89-3086
SC-0028	Santee Cooper Public Service Authority Moncks Corner, South Carolina	1	Pulverized Coal Fired Boiler Cross Unit No. 1 5200 MMBTU/hr (500 MW)	Electrostatic Precipitator	99.5%	0.023	lb/MMBTU	Not Provided	11/28/1990 No. 0420-0030
VA-0171	Mecklenburg Cogeneration Limited Mecklenburg, Virginia	4	Pulverized Coal Fired Boiler 834.5 MMBTU/hr each	Fabric Filters	99.9%	Primary = 0.018 lb/MMBTU	Secondary = 15.0 lb/hr	Not Provided	5/9/1990 No. 30861

Notes:

NSR RACT/BACT/LAER Clearinghouse database (<http://www.epa.gov/ttn/catc>) was queried for the following:

DEQ/AQD 000272

TABLE E-5
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for Lead
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit		Averaging Period	Permit Date and Permit No.
SC-0104	Santee Cooper Santee Cooper Cross Generation Station	2	Coal Fired Boiler 5700 MMBTU/HR	ESP	99.75%	1.69E-05 lb/MMBTU		Not Provided	02/05/2004 No. 0420-0030-CI
AR-0074	Plum Point Associates, LLC Plum Point Energy Arkansas	1	Coal Fired Boiler 800 MW	Fabric Filter	not given	2.56E-05	lb/MMBTU	Not Provided	8/20/2003 No. 1995-AOP-R0
IA-0067	Mid American Energy Company Council Bluffs Energy Council Iowa	1	Pulverized Coal Fired Boiler 7675 MMBTU/HR	Baghouse	99.00%	2.60E-05	lb/MMBTU	Not Provided	6/17/2003 No. 02-528
NJ-0019	Crown/Vista Energy Project (CVEP) West Deptford, New Jersey	2	Pulverized Coal Fired Boilers 1789 MMBTU/hr each 181 MW each	Spray Dryer Absorber and Fabric Filter	93.0%	0.03	lb/hr	Not Provided	10/1/1993 No. 01-92-0857
VA-0213	SEI Birchwood, Inc. King George, Virginia	1	Pulverized Coal Fired Boiler 2,200 MMBTU/HR	Lime Spray Dryer Absorber and Fabric Filter	95.0%	Primary = 0.2 lb/hr	Secondary = 0.9 TPY	Not Provided	8/23/1993 No. 40809
VA-0181	Old Dominion Electric Cooperative Clover, Virginia	1	Coal Fired Boiler 4085 MMBTU/hr (400 MW)	FGD and Fabric Filter	99.9%	Primary = 0.00042 lb/mmbtu	Secondary = 7.5 TPY	Not Provided	4/29/1991 No. 30867
SC-0028	Santee Cooper Public Service Authority Moncks Corner, South Carolina	1	Pulverized Coal Fired Boiler Cross Unit No. 1 5200 MMBTU/hr (500 MW)	Limestone FGD and Electrostatic Precipitator	75.0%	0.00033	lb/MMBTU	Not Provided	11/28/1990 No. 0420-0030

Notes:

DEQ/AQD 000273

TABLE E-6
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for Fluorides
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit		Averaging Period	Permit Date and Permit No.
NV-0036	Newmont Nevada Energy Investment, Inc. TS Power Plant	1	Coal Fired Boiler 2030 MMBTU/HR	Dry Spray Scrubber and Fabric Filter	not given	4.88 tons/yr		annual	5/05/2005 No. AP4911-1349
SC-0104	Santee Cooper Santee Cooper Cross Generation Station	2	Coal Fired Boiler 5700 MMBTU/HR	Wet FGD	95.00%	3.00E-04 lb/MMBTU		Not Provided	02/05/2004 No. 0420-0030-CI
AR-0074	Plum Point Associates, LLC Plum Point Energy Arkansas	1	Coal Fired Boiler 800 MW	Dry FGD/Fabric Filter	90	4.00E-04 lb/MMBTU		Not Provided	8/20/2003 No. 1995-AOP-R0
IA-0067	Mid American Energy Company Council Bluffs Energy Council Iowa	1	Pulverized Coal Fired Boiler 7675 MMBTU/HR	Dry FGD	95.00%	9.00E-04 lb/MMBTU		Not Provided	6/17/2003 No. 02-528
KY-0084	Thoroughbred Generating Company, LLC Thoroughbred Generating Station	2	Coal Fired Boiler 7446 MMBTU/HR	Wet FGD, WESP, and Boiler Design	not given	1.59E-04 lb/MMBTU		Not Provided	10/11/2002 No. V-02-001
NJ-0019	Crown/Vista Energy Project (CVEP) West Deptford, New Jersey	2	Pulverized Coal Fired Boilers 1789 MMBTU/hr each 181 MW each	Spray Dryer Absorber and Fabric Filter	93%	4.31 lb/hr		Not Provided	10/1/1993 No. 01-92-0857
VA-0213	SEI Birchwood, Inc. King George, Virginia	1	Pulverized Coal Fired Boiler 2,200 MMBTU/HR	Lime Spray Dryer Absorber and Fabric Filter	94%*	3.6 lb/hr		Not Provided	8/23/1993 No. 40809
SC-0027	South Carolina Electric and Gas Company Cope, South Carolina	3	Pulverized Coal Fired Boiler 385 MW each	Spray Dryer Absorber and Fabric Filter	93%*	0.01 lb/MMBTU		Not Provided	7/15/1992 No. 1860-0044
NC-0054	Roanoke Valley Project Weldon, North Carolina	1	Pulverized Coal Fired Boiler 1700 MMBTU/HR	Lime Spray Dryer Absorber and Fabric Filter	90%	0.000538 lb/MMBTU		Not Provided	1/24/1991 No. 6964
SC-0028	Santee Cooper Public Service Authority Moncks Corner, South Carolina	1	Pulverized Coal Fired Boiler Cross Unit No. 1 5200 MMBTU/hr (500 MW)	Limestone FGD and Electrostatic Precipitator	82%	0.01 lb/MMBTU		Not Provided	11/28/1990 No. 0420-0030
VA-0165	Hudson Power II Southampton, Virginia	2	Coal Fired Boiler 379 MMBTU/HR each	Spray Dryer Absorber and Fabric Filter	92%*	9.7 lb/day		Not Provided	1/1/1990 No. 61093

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DEQ/AQD 000274

TABLE E-7
NSR RACT/BACT/LAER Clearinghouse Database
BACT-PSD Sources for SO₂
Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit	Averaging Period	Permit Date and Permit No.
NV-0036	Newmont Nevada Energy Investment, Inc. TS Power Plant Nevada	1	Coal Fired Boiler 2030 MMBTU/HR	Lime Spray Dryer Scrubber	not given	0.09 0.065 lb/MMBTU lb/MMBTU	24-hour (Coal S ≥ 0.45%) - 95% removal eff, 30- day period 24-hour (Coal S <0.45%) - 91% removal eff, 30- day period	5/05/2005 No. AP4911-1349
NE-0018	Hastings Utilities Whejan Energy Center Nebraska	1	Coal Fired Boiler 2210 MMBTU/HR	Spray Dryer Adsorber	not given	0.12 1.1 lb/MMBTU lb/MMBTU	30-day average 3-hr Average	3/30/2004 No. 58048
AR-0074	Plum Point Associates, LLC Plum Point Energy Arkansas	1	Coal Fired Boiler 800 MW	Dry Flue Gas Desulfurization	not given	0.16 lb/MMBTU	Not Provided	8/20/2003 No. 1995-AOP-R0
MT-0022	Bull Mountain Development Company Bull Mountain, No. 1, LLC - Roundup Power Project Montana	2	Pulverized Coal Fired Boiler 390 MW	Dry Flue Gas Desulfurization	94.5%	Primary = 481.6 lb/hr (24-hr rolling average) Secondary = 0.12 lb/MMBTU (24-hr rolling average)	Not Provided	7/21/2003 No. 3182-00
IA-0067	Mid American Energy Company Council Bluffs Energy Council Iowa	1	Pulverized Coal Fired Boiler 7675 MMBTU/HR	Lime Spray Dryer Flue Gas Desulfurization	92.00%	Primary =0.1 lb/MMBTU (30-day rolling average) Secondary = 3362 tons/yr	Not Provided	6/17/2003 No. 02-528
KY-0084	Thoroughbred Generating Company, LLC Thoroughbred Generating Station Kentucky	2	Coal Fired Boiler 7446 MMBTU/HR	Wet FGD, WESP, and Boiler Design	not given	Primary = 0.167 lb/MMBTU (30-day rolling average) Secondary = 0.41 lb/MMBTU (24-hr average)	Not Provided	10/11/2002 No. V-02-001
WY-0057	Black Hills Corporation Wygen Wyoming	1	Pulverized Coal Fired Boiler 500 MW	Semi-dry Lime Spray Dryer Absorber	not given	Primary = 0.1 lb/MMBTU (30-day rolling average) Secondary = 0.1 lb/MMBTU (3-hr block)	Not Provided	9/25/2002 No. CT-3030
MT-0027	Rocky Mountain Power, Inc. Hardin Generator Project Montana	1	Pulverized Coal Fired Boiler 1304 MMBTU/HR	Wet Venturi Scrubber	not given	0.14 lb/MMBTU 30-day average	Not Provided	6/11/2002 No. 3185-00
MO-0050	Kansas City Power & Light Co. Hawthorn Station Kansas City, Missouri	1	Coal Fired Boiler 384 TPH	Dry FGD and Low Sulfur Coal	not given	0.12 lb/MMBTU 30-day average	Not Provided	8/17/1999 No. 888
FL-0178	JEA Northside Generating Station Jacksonville, Florida	1	Coal Fired Boiler 2764 MMBTU/hr	Circulating Fluidized Bed Scrubber or Spray Dryer Absorber	not given	0.20 lb/MMBTU	24-hour average	7/14/1999 No. PSD-FL-265
PA-0162	Edison Mission Energy Homer City, Pennsylvania	1	Pulverized Coal Fired Boiler Unit 3 6600 MMBTU/hr	Wet Limestone FGD	92%	0.40 lb/MMBTU	Not Provided	5/25/1999 No. 32-0055C
UT-0053	Deseret Generation and Transmission Company Near Bonanza, Utah	1	Coal Fired Boiler 500 MW	Wet Limestone FGD	90%	0.0976 lb/MMBTU	12-month average	3/16/1998 No. DAQE-186-98

DEQ/AQD 000275

TABLE E-7
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for SO₂
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit		Averaging Period	Permit Date and Permit No.
WY-0039	Two Elk Generation Partners, LTD Wright, Wyoming	1	Pulverized Coal Fired Boiler 250 MW	Lime Spray Dryer	91%	0.20	lb/MMBTU	2-hour fixed	2/27/1998 No. CT-1352
WY-0047	ENCOAL Corporation North Rochelle Facility 15 miles SE Wright, Wyoming	1	Pulverized Coal Fired Boiler 3960 MMBTU/HR 240 MW	Lime Spray Dryer	73%	0.20	lb/MMBTU	2-hour fixed	10/10/1997 No. CT-1324
WY-0048	Black Hills Power and Light Company Wygen Plant Gillette, Wyoming	1	Pulverized Coal Fired Boiler 80 MW	Circulating Dry Scrubber	80% **	0.20	lb/MMBTU	2-hour rolling	9/6/1996 No. CT-1236
PA-0133	Mon Valley Energy LTD Poland Mines, Pennsylvania	1	Pulverized Coal Fired Boiler 966 MMBTU/hr 80 MW Cogen	Spray Dryer Absorber	92%	0.25	lb/MMBTU	Not Provided	8/8/1995 No. 30-306-001
UT-0060	Desert Generation and Transmission Co. Utah	1	Coal Fired Boiler 4381 MMBTU/hr	Scrubber	90.0%	Primary = 0.1 lb/MMBTU (rolling year average)	Secondary = 0.15 lb/MMBTU (rolling month average)	Not Provided	6/14/1995 No. DAQE-523-95
NJ-0019	Crown/Vista Energy Project (CVEP) West Deptford, New Jersey	2	Pulverized Coal Fired Boilers 1789 MMBTU/hr each 181 MW each	Spray Dryer Absorber	93%	0.18	lb/MMBTU	Not Provided	10/1/1993 No. 01-92-0857
VA-0213	SEI Birchwood King George, Virginia SIC Code: 4931	1	Pulverized Coal Fired Boiler 2200 MMBTU/hr	Lime Spray Dryer	94%	220	lb/hr	Not Provided	8/23/1993 No. 40809
WY-0046	Black Hills Power and Light Company Neil Simpson Plant Gillette, Wyoming	1	Pulverized Coal Fired Boiler Steam Electric Power 80 MW	Circulating Dry Scrubber	80% **	0.20	lb/MMBTU	2-hour rolling	4/14/1993 No. CT-1028
MI-0228	INDELK Energy Services of Otsego Michigan	1	Coal Fired Boiler 778 MMBTU/HR	Dry Scrubber	90%	0.32	lb/MMBTU	Not Provided	3/16/1993 No. 143-90
NC-0057	Roanoke Valley Project II Weldon Township, North Carolina	1	Pulverized Coal Fired Boiler 517 MMBTU/hr	Dry Lime Scrubber	93%	0.187	lb/MMBTU	Not Provided	11/20/1992 No. 6964R2
SC-0027	South Carolina Electric and Gas Company Cope, South Carolina	2	Pulverized Coal Fired Boiler Units 2 and 3 385 MW each	Spray Dryer Absorber	93%	0.17	lb/MMBTU	Not Provided	7/15/1992 No. 1860-0044
SC-0027	South Carolina Electric and Gas Company Cope, South Carolina	1	Pulverized Coal Fired Boiler Unit 1 385 MW each	Spray Dryer Absorber	93%	0.25	lb/MMBTU	Not Provided	7/15/1992 No. 1860-0044
FL-0044	Orlando Utilities Commission Stanton Energy Center, Unit 2 Orlando, Florida	1	Pulverized Coal Fired Boiler 4286 MMBTU/HR	Wet Lime FGD	92%	0.25	lb/MMBTU	Not Provided	12/23/1991
NJ-0016	Keystone Cogeneration Systems, Inc. New Jersey	1	Pulverized Coal Fired Boiler 2116 MMBTU/hr	Spray Dryer Absorber	93%	0.16	lb/MMBTU	Not Provided	9/6/1991 No. 01-89-3983

DEQ/AQD 000276

TABLE E-7
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for SO₂
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit	Averaging Period	Permit Date and Permit No.
VA-0181	Old Dominion Electric Cooperative Clover, Virginia	1	Coal Fired Boiler 4085 MMBTU/hr (= 400 MW)	FGD and 1.0-1.3% Bituminous Sulfur Coal	94%	0.10 lb/MMBTU	Not Provided	4/29/1991 No. 30867
NC-0054	Roanoke Valley Project Weldon, North Carolina	1	Pulverized Coal Fired Boiler 1700 MMBTU/HR	Dry Lime FGD	92%	0.213 lb/MMBTU	Not Provided	1/24/1991 No. 6964
NJ-0014	Chambers Cogeneration Limited Partnership Carneys Point, New Jersey	2	Pulverized Coal Fired Boiler 1389 MMBTU/hr each	Spray Dryer Absorber	93%	0.22 lb/MMBTU	Not Provided	12/26/1990 No. 01-89-3086
SC-0028	Santee Cooper Public Service Authority Moncks Corner, South Carolina	1	Pulverized Coal Fired Boiler Cross Unit No. 1 5200 MMBTU/hr (500 MW)	Promoted Limestone FGD	95%	0.34 lb/MMBTU	Not Provided	11/28/1990 No. 0420-0030
VA-0171	Mecklenburg Cogeneration Limited Mecklenburg, Virginia	4	Pulverized Coal Fired Boiler 834.5 MMBTU/hr each	Spray Dryer Absorber	92%	0.172 lb/MMBTU	Not Provided	5/9/1990 No. 30861

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DEQ/AQD 000277

TABLE E-8
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for NO_x
 Coal Fired PC Boilers

RBLD ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit	Averaging Period	Permit Date and Permit No.
NV-0036	Newmont Nevada Energy Investment, Inc. TS Power Plant Nevada	1	Coal Fired Boiler 2030 MMBTU/HR	SCR and Low NOx Burners	not given	0.067 lb/MMBTU	24-hour rolling	5/05/2005 No. AP4911-1349
NE-0018	Hastings Utilities Whelan Energy Center Nebraska	1	Coal Fired Boiler 2210 MMBTU/HR	SCR	not given	0.08 lb/MMBTU	30-day average	3/30/2004 No. 58048
AR-0074	Plum Point Associates, LLC Plum Point Energy Arkansas	1	Coal Fired Boiler 800 MW	Low-NOx Burners	not given	0.09 lb/MMBTU	Not Provided	8/20/2003 No. 1995-AOP-R0
MT-0022	Bull Mountain Development Company Bull Mountain, No. 1, LLC - Roundup Power Project Montana	2	Pulverized Coal Fired Boiler 390 MW	Low-NOx Burners, Overfire Air and SCR	90%	Primary = 280.9 lb/hr (24-hr rolling average) Secondary = 0.07 lb/MMBTU (24-hr rolling average)		7/21/2003 No. 3182-00
IA-0067	Mid American Energy Company Council Bluffs Energy Council Iowa	1	Pulverized Coal Fired Boiler 7675 MMBTU/HR	Low-NOx Burners, Overfire Air and SCR	60.00%	Primary = 0.07 lb/MMBTU (30-day rolling average) Secondary = 2353 tons/yr	Not Provided	6/17/2003 No. 02-528
KY-0084	Thoroughbred Generating Company, LLC Thoroughbred Generating Station Kentucky	2	Coal Fired Boiler 7446 MMBTU/HR	LNBs, SCR, and Boiler Design	not given	0.08 lb/MMBTU	30-day rolling average	10/11/2002 No. V-02-001
WY-0057	Black Hills Corporation Wygen Wyoming	1	Pulverized Coal Fired Boiler 500 MW	Low-NOx Burners and SCR	not given	0.07 lb/MMBTU	30-day rolling average	9/25/2002 No. CT-3030
MT-0027	Rocky Mountain Power, Inc. Hardin Generator Project Montana	1	Pulverized Coal Fired Boiler 1304 MMBTU/HR	SCR	not given	0.09 lb/MMBTU	30-day rolling average	6/11/2002 No. 3185-00
PA-0183	AES Beaver Valley, Inc. Pennsylvania	1	Coal Fired Boiler 2155 MMBTU/HR	SNCR	not given	955.15 tons/yr	Not Provided	11/21/2001 No. PA-04-446C
FL-0003	Tampa Electric Company TECO-Big Bend Station Florida	1	Dry Bottom Tangentially Fired Boiler 4330 MMBTU/HR	Boiler Design and Operation	not given	Primary = 0.6 lb/MMBTU Secondary = 2598 lb/hr	Not Provided	01/01/2001 No. PSD-FL-040
MO-0050	Kansas City Power & Light Co. Hawthorn Station Kansas City, Missouri	1	Coal Fired Boiler 384 TPH	SCR and Good Combustion	not given	0.08 lb/MMBTU	Not Provided	8/17/1999 No. 888
FL-0178	JEA Northside Generating Station Jacksonville, Florida	1	Coal Fired Boiler 2764 MMBTU/hr	SNCR	not given	0.09 lb/MMBTU	30-day rolling average	7/14/1999 No. PSD-FL-265
PA-0162	Edison Mission Energy Homer City, Pennsylvania	3	Pulverized Coal Fired Boiler Units 1 & 2 (5700 MMBTU/hr each) Unit 3 (6600 MMBTU/hr)	SCR	70%	0.15 lb/MMBTU	Not Provided	5/25/1999 No. 32-0055C
UT-0053	Deseret Generation and Transmission Company Near Bonanza, Utah	1	Coal Fired Boiler 500 MW	Boiler Design	99.6%	0.55 lb/MMBTU	30-day average	3/16/1998 No. DAQE-186-98
WY-0039	Two Elk Generation Partners, LTD Wright, Wyoming	1	Pulverized Coal Fired Boiler 250 MW	Low-NOx Burners, Overfire Air and SCR	75%	0.15 lb/MMBTU	30-day rolling average	2/27/1998 No. CT-1352

DEQ/AQD 000278

TABLE E-8
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for NO_x
 Coal Fired PC Boilers

RBLCD ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit	Averaging Period	Permit Date and Permit No.
UT-0060	Desert Generation and Transmission Co. Utah	1	Coal Fired Boiler 4381 MMBTU/hr	Low NOx Burners	not given	0.55 lb/MMBTU	Not Provided	6/14/1995 No. DAQE-523-95
WY-0047	ENCOAL Corporation North Rochelle Facility 15 miles SE Wright, Wyoming	1	Pulverized Coal Fired Boiler 3960 MMBTU/HR 240 MW	Low NOx Burners with Flue Gas Recirculation	not given	0.16 lb/MMBTU	Not Provided	10/10/1997 No. CT-1324
WY-0048	Black Hills Power and Light Company Wygen Plant Gillette, Wyoming	1	Pulverized Coal Fired Boiler 80 MW	Low NOx Burners with Overfire Air	56%	0.22 lb/MMBTU	Not Provided	9/6/1996 No. CT-1236
PA-0133	Mon Valley Energy LTD Poland Mines, Pennsylvania	1	Pulverized Coal Fired Boiler 966 MMBTU/hr 80 MW Cogen	Low NOx Burners and SCR	50%	0.15 lb/MMBTU	Not Provided	8/8/1995 No. 30-306-001
NJ-0019	Crown/Vista Energy Project (CVEP) West Deptford, New Jersey	2	Pulverized Coal Fired Boilers 1789 MMBTU/hr each 181 MW each	Low NOx Burners and SCR	48%	0.17 lb/MMBTU	Not Provided	10/1/1993 No. 01-92-0857
VA-0213	SEI Birchwood King George, Virginia SIC Code: 4931	1	Pulverized Coal Fired Boiler 2200 MMBTU/hr	SCR	80%	330 lb/hr	Not Provided	8/23/1993 No. 40809
WY-0046	Black Hills Power and Light Company Neil Simpson Plant Gillette, Wyoming	1	Pulverized Coal Fired Boiler Steam Electric Power 80 MW	Combustion Control	not given	0.23 lb/MMBTU	30-day rolling average	4/14/1993 No. CT-1028
MI-0228	INDELK Energy Services of Otsego Michigan	1	Coal Fired Boiler 778 MMBTU/HR	SNCR/Dry Control	50%	0.25 lb/MMBTU	Not Provided	3/16/1993 No. 143-90
NC-0057	Roanoke Valley Project II Weldon Township, North Carolina	1	Pulverized Coal Fired Boiler 517 MMBTU/hr	Low NOx Burners, Advanced Overfire Air and SNCR	not given	0.17 lb/MMBTU	Not Provided	11/20/1992 No. 6964R2
SC-0027	South Carolina Electric and Gas Company Cope, South Carolina	3	Pulverized Coal Fired Boiler Units 1, 2 and 3 385 MW each	Low NOx Burners with Overfire Air	not given	0.32 lb/MMBTU	Not Provided	7/15/1992 No. 1860-0044
FL-0044	Orlando Utilities Commission Stanton Energy Center, Unit 2 Orlando, Florida	1	Pulverized Coal Fired Boiler 4286 MMBTU/HR	Low NOx Burners and SCR	70%	0.17 lb/MMBTU	Not Provided	12/23/1991
NJ-0015	Keystone Cogeneration Systems, Inc. New Jersey	1	Pulverized Coal Fired Boiler 2116 MMBTU/hr	SNCR or SCR	37%	0.17 lb/MMBTU	Not Provided	9/6/1991 No. 01-89-3983
VA-0181	Old Dominion Electric Cooperative Clover, Virginia	1	Coal Fired Boiler 4085 MMBTU/hr (≈ 400 MW)	Low NOx Burners and Advanced Overfire Air	50%	0.30 lb/MMBTU	Not Provided	4/29/1991 No. 30867
NC-0054	Roanoke Valley Project Weldon, North Carolina	1	Pulverized Coal Fired Boiler 1700 MMBTU/HR	Low NOx Burners and Advanced Overfire Air	not given	0.33 lb/MMBTU	Not Provided	1/24/1991 No. 6964

DEQ/AQD 000279

TABLE E-8
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for NO_x
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit	Averaging Period	Permit Date and Permit No.
NJ-0014	Chambers Cogeneration Limited Partnership Carneys Point, New Jersey	2	Pulverized Coal Fired Boiler 1389 MMBTU/hr each	SCR	37%	0.17 lb/MMBTU	Not Provided	12/26/1990 No. 01-89-3086
SC-0028	Santee Cooper Public Service Authority Moncks Corner, South Carolina	1	Pulverized Coal Fired Boiler Cross Unit No. 1 5200 MMBTU/hr (500 MW)	Low NOx Burners	not given	0.39 lb/MMBTU	Not Provided	11/28/1990 No. 0420-0030
VA-0171	Mecklenburg Cogeneration Limited	4	Pulverized Coal Fired Boiler	Low NOx Burners and	45%	0.33 lb/MMBTU	Not Provided	5/9/1990

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DEQ/AQD 000280

TABLE E-9
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for H₂SO₄
 Coal Fired PC Boilers

RBLD ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit	Averaging Period	Permit Date and Permit No.
NV-0036	Newmont Nevada Energy Investment, Inc. TS Power Plant Nevada	1	Coal Fired Boiler 2030 MMBTU/HR	Dry Spray Scrubber and Fabric Filter	not given	9.03 tons/yr	annual	5/05/2005 No. AP4911-1349
AR-0074	Plum Point Associates, LLC Plum Point Energy Arkansas	1	Coal Fired Boiler 800 MW	Dry FGD/Fabric Filter	not given	0.0061 lb/MMBTU	Not Provided	8/20/2003 No. 1995-AOP-R0
MT-0022	Bull Mountain Development Company Bull Mountain, No. 1, LLC - Roundup Power Project Montana	2	Pulverized Coal Fired Boiler 390 MW	Dry FGD	90.00%	Primary = 25.7 lb/hr Secondary = 0.0064 lb/MMBTU	Not Provided	7/21/2003 No. 3182-00
IA-0067	Mid American Energy Company Council Bluffs Energy Council Iowa	1	Pulverized Coal Fired Boiler 7675 MMBTU/HR	Dry FGD	not given	4.20E-03 lb/MMBTU	Not Provided	6/17/2003 No. 02-528
KY-0084	Thoroughbred Generating Company, LLC Thoroughbred Generating Station Kentucky	2	Coal Fired Boiler 7446 MMBTU/HR	Wet FGD, ESP, WESP, and Boiler Design	not given	4.97E-03 lb/MMBTU	Not Provided	10/11/2002 No. V-02-001
TX-0275	Reliant Energy Parish Unit 8 Thompson, Texas	1	Coal Fired Boiler 6700 MMBTU/hr Retrofit 590 MW to 650 MW	FGD/Fabric Filter	Not Listed	0.0015 lb/MMBTU	Not Provided	12/21/2000 No. PSD-TX-234
MO-0050	Kansas City Power & Light Co. Hawthorn Station Kansas City, Missouri	1	Coal Fired Boiler 384 TPH	Dry FGD and Low Sulfur Coal		No Limit		8/17/1999 No. 888
FL-0178	JEA Northside Generating Station Jacksonville, Florida	1	Coal Fired Boiler 2764 MMBTU/hr	Circulating Fluidized Bed Scrubber or Spray Dryer Absorber		No Limit		7/14/1999 No. PSD-FL-265
PA-0162	Edison Mission Energy Homer City, Pennsylvania	1	Pulverized Coal Fired Boiler Unit 3 6600 MMBTU/hr	Wet Limestone FGD		No Limit		5/25/1999 No. 32-0055C
UT-0053	Deseret Generation and Transmission Company Near Bonanza, Utah	1	Coal Fired Boiler 500 MW	Wet Limestone FGD		No Limit		3/16/1998 No. DAQE-186-98
WY-0039	Two Elk Generation Partners, LTD Wright, Wyoming	1	Pulverized Coal Fired Boiler 250 MW	Lime Spray Dryer		No Limit		2/27/1998 No. CT-1352
WY-0047	ENCOAL Corporation North Rochelle Facility 15 miles SE Wright, Wyoming	1	Pulverized Coal Fired Boiler 3960 MMBTU/HR 240 MW	Lime Spray Dryer		No Limit		10/10/1997 No. CT-1324
WY-0048	Black Hills Power and Light Company Wygen Plant Unit 1 Gillette, Wyoming	1	Pulverized Coal Fired Boiler 80 MW	Circulating Dry Scrubber		No Limit		9/6/1996 No. CT-1236
PA-0133	Mon Valley Energy LTD Poland Mines, Pennsylvania	1	Pulverized Coal Fired Boiler 966 MMBTU/hr 80 MW Cogen	Spray Dryer Absorber		No Limit		8/8/1995 No. 30-306-001

DEQ/AQD 000281

TABLE E-9
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for H₂SO₄
 Coal Fired PC Boilers

RBLCL ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit		Averaging Period	Permit Date and Permit No.
NJ-0019	Crown/Vista Energy Project (CVEP) West Deptford, New Jersey	2	Pulverized Coal Fired Boilers 1789 MMBTU/hr each 181 MW each	Spray Dryer Absorber		No Limit			10/1/1993 No. 01-92-0857
VA-0213	SEI Birchwood King George, Virginia SIC Code: 4931	1	Pulverized Coal Fired Boiler 2200 MMBTU/hr	Lime Spray Dryer	Not Listed	4.8	lb/hr (6.4 tpy)	Not Provided	8/23/1993 No. 40809
WY-0046	Black Hills Power and Light Company Neil Simpson Plant Gillette, Wyoming	1	Pulverized Coal Fired Boiler Steam Electric Power 80 MW	Circulating Dry Scrubber		No Limit			4/14/1993 No. CT-1028
MI-0228	INDELK Energy Services of Otsego Michigan	1	Coal Fired Boiler 778 MMBTU/HR	Dry Scrubber		No Limit			3/16/1993 No. 143-90
NC-0057	Roanoke Valley Project II Weldon Township, North Carolina	1	Pulverized Coal Fired Boiler 517 MMBTU/hr	Dry Lime Scrubber		No Limit			11/20/1992 No. 6964R2
SC-0027	South Carolina Electric and Gas Company Cope, South Carolina	2	Pulverized Coal Fired Boiler Units 2 and 3 385 MW each	Spray Dryer Absorber	Not Listed	0.011	lb/MMBTU	Not Provided	7/15/1992 No. 1860-0044
SC-0027	South Carolina Electric and Gas Company Cope, South Carolina	1	Pulverized Coal Fired Boiler Unit 1 385 MW each	Spray Dryer Absorber	Not Listed	0.011	lb/MMBTU	Not Provided	7/15/1992 No. 1860-0044
FL-0044	Orlando Utilities Commission Stanton Energy Center, Unit 2 Orlando, Florida	1	Pulverized Coal Fired Boiler 4286 MMBTU/HR	Wet Lime FGD		No Limit			12/23/1991
NJ-0015	Keystone Cogeneration Systems, Inc. New Jersey	1	Pulverized Coal Fired Boiler 2116 MMBTU/hr	Spray Dryer Absorber		No Limit			9/6/1991 No. 01-89-3983
VA-0181	Old Dominion Electric Cooperative Clover, Virginia	1	Coal Fired Boiler 4085 MMBTU/hr (= 400 MW)	FGD and 1.0-1.3% Bituminous Sulfur Coal		No Limit			4/29/1991 No. 30867
NC-0054	Roanoke Valley Project Weldon, North Carolina	1	Pulverized Coal Fired Boiler 1700 MMBTU/HR	Dry Lime FGD		No Limit			1/24/1991 No. 6964
NJ-0038	Chambers Cogeneration Limited Partnership Carneys Point, New Jersey	2	Pulverized Coal Fired Boiler 1389 MMBTU/hr each	Spray Dryer Absorber	Not Listed	1.12	lb/hr (both units)	Not Provided	12/26/1990 No. 01-89-3086
SC-0028	Santee Cooper Public Service Authority Moncks Corner, South Carolina	1	Pulverized Coal Fired Boiler Cross Unit No. 1 5200 MMBTU/hr (500 MW)	Promoted Limestone FGD	50%	0.04	lb/MMBTU	Not Provided	11/28/1990 No. 0420-0030
VA-0171	Mecklenburg Cogeneration Limited Mecklenburg, Virginia	4	Pulverized Coal Fired Boiler 834.5 MMBTU/hr each	Spray Dryer Absorber		No Limit			5/9/1990 No. 30861

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TABLE E-9
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for H₂SO₄
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit	Averaging Period	Permit Date and Permit No.
VA-0165	Hadson Power II Southampton, Virginia	2	Coal Fired Boiler 379 MMBTU/HR each	Spray Dryer Absorber and Fabric Filter	Not Listed	149.2 lb/day	Not Provided	1/1/1990 No. 61093

Notes:

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TABLE E-10
 NSR RACT/BACT/LAER Clearinghouse Database
 BACT-PSD Sources for Beryllium
 Coal Fired PC Boilers

RBLC ID	Company Name and Location	# of Units	Unit and Size	Control Technology	Control Efficiency	Emission Limit	Averaging Period	Permit Date and Permit No.
SC-0104	Santee Cooper Santee Cooper Cross Generation Station South Carolina	2	Coal Fired Boiler 5700 MMBTU/HR	ESP	99.75	8.44E-07 lb/MMBTU	Not Provided	02/05/2004 No. 0420-0030-CI
TX-0298	Reliant Energy Inc WA Parish Electric Generating Station Texas	2	Coal Fired Boiler 7400 MMBTU/HR	not given	not given	Primary = 0.24 lb/hr Secondary = 0.03 tons/yr	Not Provided	10/15/2003 No. PSD-TX-901
TX-0298	Reliant Energy Inc WA Parish Electric Generating Station Texas	1	Coal Fired Boiler 6700 MMBTU/HR	not given	not given	Primary = 0.21 lb/hr Secondary = 0.03 tons/yr	Not Provided	10/15/2003 No. PSD-TX-902
TX-0358	Reliant Energy, Inc. Washington Parish Electric Generating Station Texas	2	Coal Fired Boiler 6750 MMBTU/HR	not given	not given	Primary = 0.24 lb/hr Secondary = 0.03 tons/yr	Not Provided	10/15/2002 PSD-TX-33 M1
TX-0358	Reliant Energy, Inc. Washington Parish Electric Generating Station Texas	1	Coal Fired Boiler 6700 MMBTU/HR	not given	not given	Primary = 0.21 lb/hr Secondary = 0.03 tons/yr	Not Provided	10/15/2002 PSD-TX-33 M1
KY-0084	Thoroughbred Generating Company, LLC Thoroughbred Generating Station Kentucky	2	Coal Fired Boiler 7446 MMBTU/HR	Wet FGD, WESP, and ESP	not given	9.44E-07 lb/MMBTU	Not Provided	10/11/2002 No. V-02-001

Notes:

NSR RACT/BACT/LAER Clearinghouse database (<http://www.epa.gov/ttn/catc>) was queried for the following:

- RBLC Determinations added during or after January 1995
- SIC Code: 4911
- Process Type Code: 11.110 - Coal Combustion

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