

# **ARKANSAS POLLUTION CONTROL AND ECOLOGY COMMISSION**



## **REGULATION NO. 19**

### **REGULATIONS OF THE ARKANSAS PLAN OF IMPLEMENTATION FOR AIR POLLUTION CONTROL**

**Submitted to the  
Pollution Control and Ecology Commission  
on May 24, 2007 DRAFT**

## CHAPTER 15 REGIONAL HAZE

### Reg 19.1501 Purpose

The purpose of this Chapter is to establish regional haze program requirements.

### Reg 19.1502 Definitions

For purposes of this Chapter only the definitions contained in 40 CFR 51.301 as in effect on June 22, 2007, are hereby incorporated by reference.

### Reg 19.1503 BART Eligible Sources

The following are BART-eligible sources:

<u>BART Source Category Number and Name</u>	<u>Facility Name</u>	<u>AFIN</u>	<u>Unit ID</u>	<u>Unit Description</u>	
<u>1. Fossil fuel-fired Electric Plants &gt; 250 MMbtu/hour – Electric Generating Units (EGUs)</u>	<u>Arkansas Electric Coop – Carl E. Bailey</u>	<u>74-00024</u>	<u>SN-01</u>	<u>Boiler</u>	
	<u>Arkansas Electric Coop – John L. McClelland Generating Station</u>	<u>52-00055</u>	<u>SN-01</u>	<u>Boiler 1350 mm</u>	
	<u>Entergy Arkansas, Inc. – Lake Catherine Plant</u>	<u>30-00011</u>	<u>SN-03</u>	<u>Unit 4 Boiler</u>	
	<u>Entergy Arkansas – Ritchie</u>	<u>54-00017</u>	<u>SN-02</u>	<u>Unit 2</u>	
	<u>Entergy Arkansas, Inc. – White Bluff</u>		<u>35-00110</u>	<u>SN-01</u>	<u>Unit 1 Boiler</u>
				<u>SN-02</u>	<u>Unit 2 Boiler</u>
				<u>SN-05</u>	<u>Auxiliary Boiler</u>
<u>SWEPCO Flint Creek Power Plant</u>		<u>04-00107</u>	<u>SN-01</u>	<u>Boiler</u>	

<u>3. Kraft Pulp Mills</u>	<u>Domtar Industries, Inc. – Ashdown Mill</u>	<u>41-00002</u>	<u>SN-03</u>	<u>#1 Power Boiler</u>
			<u>SN-05</u>	<u>#2 Power Boiler</u>
	<u>Delta Natural Kraft and Mid America Packaging LLC</u>	<u>35-00017</u>	<u>SN-02</u>	<u>Recovery Boiler</u>
	<u>Georgia-Pacific Corporation – Crossett Paper Operations</u>	<u>02-00013</u>	<u>SN-19</u>	<u>6A Boiler</u>
			<u>SN-22</u>	<u>9A Boiler</u>
<u>Green Bay Packaging, Inc. – Arkansas Kraft Division</u>	<u>15-00001</u>	<u>SN-05A</u>	<u>Recovery Boiler</u>	
<u>Potlatch Forest Products Corporation – Cypress Bend Mill</u>	<u>21-00036</u>	<u>SN-04</u>	<u>Power Boiler</u>	
<u>11. Petroleum Refineries</u>	<u>Lion Oil Company</u>	<u>70-00016</u>	<u>SN-809</u>	<u>#7 Catalyst Regenerator</u>
<u>15. Sulfur Recovery Plant</u>	<u>Albermarle Corporation – South Plant</u>	<u>14-00028</u>	<u>SR-01</u>	<u>Tail Gas Incinerator</u>
<u>19. Sintering Plants</u>	<u>Big River Industries</u>	<u>35-00082</u>	<u>SN-01</u>	<u>Kiln A</u>
<u>Chemical Processing Plants</u>	<u>Albermarle Corporation – South Plant</u>	<u>14-00028</u>	<u>BH-01</u>	<u>Boiler #1</u>
			<u>BH-02</u>	<u>Boiler #2</u>
	<u>Future Fuels</u>	<u>32-00036</u>	<u>6M01-01</u>	<u>3 Coal Boilers</u>
	<u>El Dorado Chemical Company</u>	<u>70-00040</u>	<u>SN-08</u>	<u>West Nitric Acid Plant</u>
			<u>SN-09</u>	<u>East Nitric Acid Plant</u>
		<u>SN-10</u>	<u>Nitric Acid Concentrator</u>	

**Reg 19.1504 Facilities Subject to BART**

(A) The following sources are subject to BART:

<u>AFIN</u>	<u>Facility Name</u>	<u>Source #</u>	<u>Source Name</u>
<u>74-00024</u>	<u>Arkansas Electric Cooperative Corporation Carl E Bailey Generating Station</u>	<u>SN-01</u>	<u>Boiler</u>
<u>52-00055</u>	<u>Arkansas Electric Cooperative Corporation John L. McClellan Generating Station</u>	<u>SN-01</u>	<u>Boiler</u>
<u>41-00002</u>	<u>Domtar Industries Inc. ,Ashdown Mill</u>	<u>SN-03</u>	<u>#1 Power Boiler</u>
		<u>SN-05</u>	<u>#2 Power Boiler</u>
<u>30-00011</u>	<u>Entergy Arkansas, Inc. – Lake Catherine Plant</u>	<u>SN-03</u>	<u>Unit 4 Boiler</u>
<u>35-00110</u>	<u>Entergy Arkansas, Inc. – White Bluff</u>	<u>SN-01</u>	<u>Unit 1 Boiler</u>
		<u>SN-02</u>	<u>Unit 2 Boiler</u>
		<u>SN-05</u>	<u>Auxiliary Boiler</u>
<u>04-00107</u>	<u>SWEPCO Flint Creek Power Plant</u>	<u>SN-01</u>	<u>Boiler</u>

(B) Each source subject to BART shall install and operate BART as expeditiously as practicable, but in no event later than 5 years after the effective date of this regulation.

(C) Each source subject to BART shall maintain the control equipment required by this chapter and establish procedures to ensure such equipment is properly operated and maintained.

**Reg. 19.1505 BART Requirements**

(A) On or before the compliance date required under section 19.15004(B), SWEPCO Flint Creek Power Plant, SN-01 shall comply with BART by meeting the following emission limits:

- (1) 0.15 pounds of sulfur dioxide (SO<sub>2</sub>) per million Btu of heat input (0.15 lb/MMBtu) on a 30-day rolling average; and
  - (2) 0.23 pounds of nitrogen oxides (NO<sub>x</sub>) per million Btu of heat input (0.23 lb/MMBtu) on a 30-day rolling average.
- (B) On or before the compliance date required under section 19.15004(B), Arkansas Electric Cooperative Corporation Carl E Bailey Generating Station, SN-01 shall comply with BART by burning fuel oil that has a 1% or less sulfur content by weight.
- (C) On or before the compliance date required under section 19.15004(B), Arkansas Electric Cooperative Corporation John L. McClellan Generating Station, SN-01 shall comply with BART by burning fuel oil that has a 1% or less sulfur content by weight.
- (D) On or before the compliance date required under section 19.15004(B), Domtar Industries Inc. – Ashdown Mill, #1 Power Boiler, SN-03 shall comply with BART by meeting the following emission limits:
- (1) 0.763 pounds of sulfur dioxide (SO<sub>2</sub>) per million Btu of heat input (0.763 lb/MMBtu) on a 24-hour average,
  - (2) 0.310 pounds of nitrogen oxides (NO<sub>x</sub>) per million Btu of heat input (0.310 lb/MMBtu) on a 24-hr average; and
  - (3) 0.07 pounds of PM<sub>10</sub> per million Btu of heat input (0.07 lb/MMBtu) on a 24 hour average.
- (E) On or before the compliance date required under section 19.15004(B), Domtar Industries Inc. – Ashdown Mill, #2 Power Boiler, SN-05 shall comply with BART by meeting the following emission limits:
- (1) 0.961 pounds of sulfur dioxide (SO<sub>2</sub>) per million Btu of heat input (0.961 lb/MMBtu) on a 24-hour average;
  - (2) 0.450 pounds of nitrogen oxides (NO<sub>x</sub>) per million Btu of heat input (0.450lb/MMBtu) on a 24-hour average; and
  - (3) 0.07 pounds of PM<sub>10</sub> per million Btu of heat input (0.07 lb/MMBtu) on a 24 hour average.
- (F) On or before the compliance date required under section 19.15004(B), Entergy Arkansas, Inc. – White Bluff, Unit 1 Boiler, SN-01 shall comply with BART by meeting the following emission limits when burning bituminous coal:
- (1) 0.15 pounds of sulfur dioxide (SO<sub>2</sub>) per million Btu of heat input (0.15 lb/MMBtu) on a 30-day rolling average, and

- (2) 0.28 pounds of nitrogen oxides (NO<sub>x</sub>) per million Btu of heat input (0.28 lb/MMBtu) on a 30-day rolling average.
- (G) On or before the compliance date required under section 19.15004(B), Entergy Arkansas, Inc. – White Bluff, Unit 1 Boiler, SN-01 shall comply with BART by meeting the following emission limits when burning sub-bituminous coal:
  - (1) 0.15 pounds of sulfur dioxide (SO<sub>2</sub>) per million Btu of heat input (0.15 lb/MMBtu) on a 30-day rolling average; and
  - (2) 0.15 pounds of nitrogen oxides (NO<sub>x</sub>) per million Btu of heat input (0.15 lb/MMBtu) on a 30-day rolling average.
- (H) When burning a mix of bituminous coal and sub-bituminous coal in the Unit 1 Boiler at Entergy Arkansas, Inc. – White Bluff the NO<sub>x</sub> BART limits shall be prorated using the percentage of each of coal being burned.
- (I) On or before the compliance date required under section 19.15004(B), Entergy Arkansas, Inc. – White Bluff, Unit 2 Boiler, SN-02 shall comply with BART by meeting the following emission limits when burning bituminous coal:
  - (1) 0.15 pounds of sulfur dioxide (SO<sub>2</sub>) per million Btu of heat input (0.15 lb/MMBtu) on a 30-day rolling average, and
  - (2) 0.28 pounds of nitrogen oxides (NO<sub>x</sub>) per million Btu of heat input (0.28 lb/MMBtu) on a 30-day rolling average.
- (J) On or before the compliance date required under section 19.15004(B), Entergy Arkansas, Inc. – White Bluff, Unit 2 Boiler, SN-02 shall comply with BART by meeting the following emission limits when burning sub-bituminous coal:
  - (1) 0.15 pounds of sulfur dioxide (SO<sub>2</sub>) per million Btu of heat input (0.15 lb/MMBtu) on a 30-day rolling average, and
  - (2) 0.15 pounds of nitrogen oxides (NO<sub>x</sub>) per million Btu of heat input (0.15 lb/MMBtu) on a 30-day rolling average.
- (K) When burning a mix of bituminous coal and sub-bituminous coal in the Unit 2 Boiler at Entergy Arkansas, Inc. – White Bluff the NO<sub>x</sub> BART limits shall be prorated using the percentage of each of coal being burned.
- (L) On or before the compliance date required under section 19.15004(B), Entergy Arkansas, Inc. – White Bluff, auxiliary boiler, SN-05 shall comply with BART by not operating concurrently with Unit 1 and Unit 2. The auxiliary boiler may operate concurrently with Unit 1 or Unit 2.

(M) On or before the compliance date required under section 19.15004(B), Entergy Arkansas, Inc. – Lake Catherine Plant, Unit 4 Boiler, SN-03 shall comply with BART by meeting the following emission limits when burning natural gas:

- (1) 0.00057 pounds of sulfur dioxide (SO<sub>2</sub>) per million Btu of heat input (0.00057 lb/MMBtu) on a 24-hour average;
- (2) 0.048 pounds of nitrogen oxides (NO<sub>x</sub>) per million Btu of heat input (0.048 lb/MMBtu) on a 24-day hour average; and
- (3) 0.0063 pounds of PM<sub>2.5</sub> per million Btu of heat input (0.0063 lb/MMBtu) on a 24 hour average.

(N) On or before the compliance date required under section 19.15004(B), Entergy Arkansas, Inc. – Lake Catherine Plant, Unit 4 Boiler, SN-03 shall comply with BART by meeting the following emission limits when burning oil:

- (1) 0.194 pounds of sulfur dioxide (SO<sub>2</sub>) per million Btu of heat input (0.194 lb/MMBtu) on a 24-hour average;
- (2) 0.021 pounds of nitrogen oxides (NO<sub>x</sub>) per million Btu of heat input (0.021 lb/MMBtu) on a 24-day hour average; and
- (3) 0.015 pounds of PM<sub>2.5</sub> per million Btu of heat input (0.015 lb/MMBtu) on a 24 hour average.

### **19.1506 Compliance Provisions**

Each facility listed in section 19.15004(A) as being subject to BART shall demonstrate compliance with the BART limits listed in 19.15005 in accordance with the provisions of Chapter 7 of this regulation.

### **19.1507 Permit Reopening**

The Part 70 permit of each facility subject to BART shall be subject to re-opening in accordance with section 26.1011(A) of Arkansas Pollution Control and Ecology Commission Regulation 26.

## **CHAPTER 16 EFFECTIVE DATE**

### **Reg. 19.1601 Effective Date**

This regulation is effective ten (10) days after filing with the Secretary of State, the State Library and the Bureau of Legislative Research.



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