

**BEFORE THE ARKANSAS POLLUTION CONTROL AND ECOLOGY
COMMISSION**

**IN THE MATTER OF AMENDMENTS TO)
REGULATION NO. 19, REGULATIONS OF THE)
ARKANSAS PLAN OF IMPLEMENTATION)
FOR AIR POLLUTION CONTROL) DOCKET NO. 07-006-R**

**RESPONSIVE SUMMARY FOR
REGULATION NO. 19, REGULATIONS OF THE ARKANSAS PLAN
OF IMPLEMENTATION FOR AIR POLLUTION CONTROL**

Pursuant to A.C.A. § 8-4-202(d)(4)(C) and Regulation No. 8, Section 3.6.2(2), a responsive summary groups public comments into similar categories and explains why the Arkansas Pollution Control and Ecology Commission ("Commission") accepts or rejects the rationale for each category.

On May 24, 2007, the Arkansas Department of Environmental Quality (ADEQ) filed a Petition to Initiate Rulemaking to Amend Regulation No. 19, Regulations of the Arkansas Plan of Implementation for Air Pollution Control. Commissioner Ephrain Valdez conducted a public hearing on June 27, 2007. The following are comments and ADEQ responses

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AR. POLLUTION CONTROL
& ECOLOGY COMMISSION
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**REGULATION NUMBER 19
RESPONSIVENESS SUMMARY
(August 10, 2007)**

Comment 1 – Several facilities requested the time for compliance listed in 19.1504 (B) be changed from “...but in no event later than 5 years after the effective date of this regulation” to “...but in no event later than 5 years after the EPA approves the Arkansas Regional Haze State Implementation Plan.” The reason for this request was based on the time required to design the controls, purchase the controls, install the controls, and go through the permitting process.

Response 1 – This comment was addressed by changing the language in 19.1504 (B) to “Each source subject-to-BART shall install and operate BART as expeditiously as practicable, but in no event later than 6 years after the effective date of this regulation or 5 years after EPA approval of the Arkansas Regional Haze State Implementation Plan, whichever comes first.”

Comment 2 – Several subject-to-BART sources requested the following language be added 19.1505 (A), (F), (G), (I), (J), and (M): “The existing particulate matter emission limits satisfies the BART particulate matter requirement.”

Response 2 – ADEQ concurs and has added the requested language to 19.1505 (A), (F), (G), (I), (J), and (M).

Comment 3 – Commenter stated “It is presumed that the other aspect of the regional haze required SIP component dealing with the reasonable progress goal will be the subject of another regulatory activity by the APCEC.”

Response 3 – ADEQ is required to establish through a process of evaluation of all source categories of pollutants that contribute to regional haze, Reasonable Progress Goals. This evaluation results in the establishment of a numeric target for the degree of progress that might be achieved by the year 2018. ADEQ has determined that reasonable progress will be accomplished through the implementation of BART controls as described in this SIP and other federal regulatory programs that are either “on the books” or on the way. These include for example, ozone and PM NAAQS implementation, fuel standards, engine standards, MACT Rules, etc. The estimated emission reductions achieved by 2018 through these other rules is a part of the determination of what constitutes reasonable progress but the implementation of these rules will be through regulatory actions other than the Regional Haze Rule.

Comment 4 – Commenter has requested the language in 19.1505 BART Requirements (D) and (E) read as follows:

(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) 1.12 pounds of sulfur dioxide (SO₂) per million Btu of heat input (1.12 lb/MMBtu) on a 30-day averaging time,
- (2) 0.46 pounds of nitrogen oxides (NO_x) per million Btu of heat input (0.46 lb/MMBtu) on a 30-day averaging time; and
- (3) 0.07 pounds of PM₁₀ per million Btu of heat input (0.07 lb/MMBtu) on a 30-day averaging time.

(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) 1.20 pounds of sulfur dioxide (SO₂) per million BTU heat input (1.20 lb/MMBtu) on a 30-day averaging time,
- (2) 0.450 pounds of nitrogen oxides (NO_x) per million BTU of heat input (0.450 lb/MMBtu) on a 30-day averaging time; and
- (3) 0.10 pounds of PM₁₀ per million Btu heat input (0.10 lb/MMBtu) on a 30-day averaging time.

Response 4 – Accepted and changed, but instead of a “30-day averaging time,” a 30-day rolling average was added to each pollutant in 19.1505 (D) and (E).

Comment 5 – Commenter requested the addition of emission limits for the combustion of lignite coal at both Entergy White Bluff units.

Response 5 – Upon review of this request, ADEQ has determined that it is not appropriate to include lignite limits in this rule. Emissions from lignite coal were not modeled because this facility does not currently burn lignite. Furthermore, the burning of lignite is not currently authorized in this facility’s permit. In the future, the facility may request approval to begin burning lignite on a permanent basis through a permit modification request. The BART requirements will be addressed at that time. The ADEQ recognizes that any of the units subject to BART may wish to make modifications in the future. These modifications will be addressed by our existing permit modification procedures and will not require this rule to be reopened.

Comment 6 – Commenter has suggested the following language for 19.1501 (L):
Option 1. “...shall comply with BART by not operating concurrently with Unit 1 and Unit 2 except during periods of startup, shutdown, or malfunction and testing...” or **Option 2.** “...shall comply with BART by restricting operation to not more than 4360 hours annually.” This commenter also stated they are willing to change the name of this source from auxiliary boiler to “start up boiler.”

Response 6 – After careful review, ADEQ has rejected Option 1 because this option does not have any absolute emission limits on this boiler. Additionally, Option 1 does nothing to limit this boiler’s impact on visibility. However, ADEQ accepts Option 2 and has changed the language in 19.1505 (L) accordingly. This facility may change the name if they so choose, but a name change will not change the unit nor its affect on visibility.

Comment 7 – Commenter believes there should not be emission limits for sulfur dioxide and particulate matter listed in 19.1505 (M) and the emission limit for nitrogen oxides should be 0.15 pounds of nitrogen oxides (NO_x) per million BTU of heat input on a 30-day rolling average.

Response 7 – ADEQ agrees and has changed the language accordingly.

Comment 8 – Commenter suggested the following emission limits in 19.1505 (N): (1) burning fuel oil that has a 1% or less sulfur content by weight and (2) 0.25 pounds of nitrogen oxides (NO_x) per million BTU of heat input (0.25 lb/MMBtu) on a 30-day rolling average.

Response 8 – The ADEQ is required to show an improvement to visibility from Arkansas’s subject-to-BART sources’ post-control emissions. It has been determined through modeling a 1% or less sulfur content by weight still has a significant impact on several Class I areas. Therefore, an emission limit of 0.562 pounds of sulfur dioxide (SO₂) per million Btu of heat input (0.562 lb/MMBtu) on a 30-day rolling average was added. This emission limit is representative of 0.5% sulfur content by weight. The request of an emission limit of 0.25 lb/MMBtu of NO_x on a 30-day rolling average is accepted and changed accordingly. Additionally, an emission limit of 0.037 pounds of particulate matter 2.5 micrometer (PM_{2.5}) per million Btu heat input (0.037 lb/MMBtu) on a 30-day rolling average was added.

Comment 9 – A facility submitted a comment letter stating they notified ADEQ on May 31, 2007 their #4 Recovery Boiler, SN-04, might have been excluded from ADEQ’s list of BART-eligible sources. “Information was supplied to” ADEQ ...The Department concluded that the #4 Recovery Boiler is a BART-eligible source under Reg. 19.1503.” The commenter requested SN-04 be added to 19.1503 under BART Source Category Number and Name 3 Kraft Pulp Mills. Additionally, the commenter stated “Department modeling, however, showed that the #4 Recovery Boiler is not subject to BART and should not be listed under Reg. 19.1504.”

Response 9 – Upon evaluation of this comment, ADEQ agrees and has included the #4 Recovery Boiler, SN-04, in 19.1503 and did not include the aforementioned source in 19.1504.

Comment 10 – Commenter concurs with their BART determinations.

Response 10 – ADEQ staff thanks the commenter for their concurrence.

Comment 11 – According to a commenter, there is an incorrect AFIN for Big Rivers Industries and requested ADEQ to change the AFIN from 35-00082 to 18-00082.

Response 11 – ADEQ determined there is an incorrect AFIN in 19.1503, Big River Industries and changed the AFIN from 35-00082 to 18-00082.