

[Proposed] Regional Haze Implementation Plan Revision

*[Including Revisions to Affected Portions of the
Interstate Transport SIP for the 1997 8-hour Ozone and
1997 PM_{2.5} NAAQS]*

State of Oklahoma

Department of Environmental Quality

March 20, 2013

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I. Background

A. Regional Haze SIP

Oklahoma submitted its Regional Haze Implementation Plan Revision (“Regional Haze SIP” or “RH SIP”) in February 2010. The U.S. Environmental Protection Agency (“EPA”) approved core elements of the Regional Haze SIP effective January 27, 2012 (76 Fed.Reg. 81727), codified at 40 C.F.R. § 52.1920). In the same action, EPA approved Oklahoma’s Best Available Retrofit Technology (“BART”) determinations for the majority of emissions units subject to BART, but disapproved the sulfur dioxide (“SO₂”) BART determinations for several emissions units (40 C.F.R. § 52.1928), and issued a Federal Implementation Plan (“FIP”) covering those units (40 C.F.R. § 52.1923). As part of this action, EPA also disapproved the State’s submitted Long Term Strategy because it relied on the BART limits in the disapproved determinations. Specifically, EPA disapproved the SO₂ BART determinations for Units 3 and 4 of the American Electric Power/Public Service Company of Oklahoma (“AEP/PSO”) Northeastern Power Station in Rogers County (“Northeastern Units 3 and 4”), including Section VI(E), “Greater Reasonable Progress Alternative Determination” and the associated PSO Regional Haze Agreement, Case No. 10-025. The final action approved the Oklahoma Regional Haze SIP’s SO₂, oxides of nitrogen (“NO_x”), and particulate matter (“PM”) BART determinations for the AEP/PSO Northeastern Unit 2, and the NO_x and PM BART determination for the AEP/PSO Northeastern Units 3 and 4.

On November 14, 2012, a notice of a proposed settlement agreement was published in the Federal Register,¹ which outlined an alternative strategy for AEP/PSO to meet its obligations under the visibility provisions of the Federal Clean Air Act. The final settlement agreement became effective with the signature of a U.S. Department of Justice representative on February 8, 2013. With this submittal, the State of Oklahoma is revising those portions of its Regional Haze SIP that relate to the SO₂ and NO_x BART determinations for AEP/PSO’s Northeastern Units 3 and 4. This revision of the Regional Haze SIP addresses the requirements of the visibility provisions of the Federal Clean Air Act, 42 U.S.C. 7491, and EPA’s regional haze regulations, 40 C.F.R. § 51.308, as they relate to AEP/PSO’s Northeastern Units 3 and 4. Moreover, this revision is intended to obviate the need for and replace the related EPA-issued FIP as it relates to Northeastern Units 3 and 4. Specifically, the revision is intended to result in the removal of all references to Northeastern Units 3 and 4 in 40 C.F.R. § 52.1923 and 40 C.F.R. § 52.1928.

B. Interstate Transport SIP

Oklahoma submitted its *Interstate Transport SIP for an Assessment of Oklahoma’s Impact on Downwind Nonattainment for the National Ambient 8-hour Ozone and PM_{2.5} Air Quality Standards* (“Transport SIP”) to EPA in May 2007 (including supplemental information submitted in November 2007). EPA has taken several actions, codified at 40 C.F.R. § 52.1920, to give partial

¹77 Fed.Reg. 67814 (Nov. 14, 2012). The Settlement Agreement (Appendix I) for Public Service Company of Oklahoma’s (“PSO’s”) Petition for Review was entered into by PSO, the Oklahoma Secretary of the Environment, DEQ, EPA, and the Sierra Club.

approval/disapproval of the Transport SIP as it addresses various aspects of the required elements of § 110(a)(2)(D) of the Federal Clean Air Act, 42 U.S.C. § 7410 (a)(2)(D). See 75 Fed.Reg. 72701 (Nov. 26, 2010); 76 Fed.Reg. 81838 (Dec. 29, 2011); 77 Fed.Reg. 3933 (Jan. 26, 2011). EPA's December 28, 2011 action on Oklahoma's Regional Haze SIP (76 FR 81757) also addressed interstate transport of pollutants and visibility protection as follows:

We are partially approving and partially disapproving a portion of a SIP revision we received from the State of Oklahoma on May 10, 2007, as supplemented on December 10, 2007, for the purpose of addressing the 'good neighbor' provisions of the CAA section 110(a)(2)(D)(i) with respect to visibility for the 1997 8-hour ozone NAAQS and the PM_{2.5} NAAQS.

...

We are finalizing a FIP to address the requirements of section 110(a)(2)(D)(i)(II) with respect to visibility to ensure that emissions from sources in Oklahoma do not interfere with the visibility programs of other states. We find that the controls under this FIP, in combination with the controls required by the portion of the Oklahoma RH submittal that we are approving, will serve to prevent sources in Oklahoma from emitting pollutants in amounts that will interfere with efforts to protect visibility in other states.

This SIP revision addresses the requirements of the interstate transport provisions of the Federal Clean Air Act, 42 U.S.C. 7410(a)(2)(D)(i)(II) as they relate to AEP/PSO's Northeastern Units 3 and 4. Moreover, this revision is intended to obviate the need for and replace the related EPA-issued FIP as it relates to Northeastern Units 3 and 4. Specifically, the revision is intended to result in the removal of all references to Northeastern Units 3 and 4 in 40 C.F.R. § 52.1923 and 40 C.F.R. § 52.1928.

II. Revised Best Available Retrofit Technology for AEP/PSO Northeastern Units 3 and 4

A. Source Description

AEP/PSO Northeastern Power Station is located in Rogers County, Oklahoma. The station includes one (1) 495 MW gas-fired steam electric generating unit designated as Northeastern Unit 2 and two (2) 490 MW coal-fired steam electric generating units designated as Northeastern Units 3 and 4. Note that EPA approved the BART determination for Northeastern Unit 2 and the portion of the BART determination not related to SO₂ for Northeastern Units 3 and 4. See 76 Fed.Reg. 81727 (Jan. 27, 2012). The facility is currently permitted to operate under DEQ Air Quality Permit No. 2003-410-TVR (M-3), which was issued on March 8, 2012.

B. Determination of BART Requirements

Oklahoma's original Regional Haze SIP documented how DEQ conducted a case-by-case five-factor BART analysis for each of the BART-subject units. Based on information and cost estimates provided by the affected facilities at that time, DEQ determined that Dry Flue Gas Desulfurization with Spray Dryer Absorber ("DFGD/SDA") was not cost-effective for SO₂ control for PSO Northeastern Units 3

and 4. The determination also included additional compliance options, including a Greater Reasonable Progress Alternative Determination. In their disapproval, EPA disagreed with DEQ's application of the costing methodologies, and consequently issued a FIP with emission limits that assumed application of DFGD/SDA technology.

Based on current and projected long-term market, cost, and technical information, the BART determination for AEP/PSO Northeastern Units 3 and 4 has been revised. This determination provides that: (1) the facility will shut down one of the affected units (either Unit 3 or 4) by April 16, 2016; (2) the facility will install and operate a dry sorbent injection (“DSI”) system on the remaining unit to meet an emission standard of 0.40 lb/mmBTU or less from April 16, 2016 to December 31, 2026; and (3) the facility will incrementally decrease capacity utilization for the remaining unit between 2021 and 2026, and will shut down the remaining unit no later than December 31, 2026.

Tables II-1 and II-2 summarize application of the BART control technologies and emission limits. The full Revised BART Determination is attached as Appendix II. [For simplicity, the table reflects AEP/PSO’s indication that Unit 4 is the likely unit to be shut down in 2016, but there is no requirement as to which of the two units is shut down first.] This determination is consistent with the Settlement Agreement included in Appendix I. DEQ has entered into an enforceable administrative order with the owner and operator of AEP/PSO Northeastern Units 3 and 4 (attached as Appendix III²) requiring the installation and operation of BART and the achievement of the associated BART emission limitations within the specified time frames. The administrative order requires AEP/PSO to obtain necessary permit modifications that will also include a requirement, schedule, and procedures to ensure that the source properly installs, operates, monitors, and maintains any required control equipment.

Table II-1: Baseline control technologies and emissions for AEP/PSO Northeastern Units 3 and 4

Baseline Emissions (2004-2006)			
		Unit 3	Unit 4
Design Heat Input to Boiler		4,775 mmBtu/hr	4,775 mmBtu/hr
SO ₂	Control	Low-Sulfur Coal	Low-Sulfur Coal
	Emission Rate (lb/mmBtu)	0.9 lb/mmBtu	0.9 lb/mmBtu
	Combined Annual Emission Rate ¹	31,999 TPY	
NO _x	Control	1 st Generation LNB w/ OFA ²	1 st Generation LNB w/ OFA ²
	Emission Rate (lb/mmBtu)	0.40 lb/mmBtu	0.40 lb/mmBtu
	Combined Annual Emission Rate ¹	14,222 TPY	
PM ₁₀	Control	Electrostatic precipitator	Electrostatic precipitator
	Emission Rate (lb/mmBtu)	0.10 lb/mmBtu	0.10 lb/mmBtu
	Combined Annual Emission Rate ¹	3,555 TPY	
¹ 85% Capacity Factor ² LNB = Low NOx Burners OFA = Over-fired Air			

² Appendix III contains the First Amended Regional Haze Agreement, Case No. 10-025, which amends and updates the PSO Regional Haze Agreement, Case No. 10-025, attached as Item 2 in Appendix 6-5 of the original Regional Haze SIP submittal.

Table II-2: Implementation of BART control technologies and emission limits for AEP/PSO Northeastern Units 3 and 4

Preliminary/BART Control Steps (Prior to Unit 4 Shutdown¹)			
By December 31, 2013		Unit 3	Unit 4
NO _x	Control	LNB w/ Separated OFA ²	LNB w/ Separated OFA ²
	Emission Rate (lb/mmBtu)	0.23 lb/mmBtu (30-day rolling average)	0.23 lb/mmBtu (30-day rolling average)
	Hourly Emission Rate	1,098 lb/hr (30-day rolling average)	1,098 lb/hr (30-day rolling average)
	Combined Annual Emission Rate	9,620 TPY (12-month rolling)	
By January 31, 2014		Unit 3	Unit 4
SO ₂	Control	Low Sulfur Coal	Low Sulfur Coal
	Emission Rate (lb/mmBtu)	0.65 lb/mmBtu ³ (30-day rolling average)	0.65 lb/mmBtu (30-day rolling average)
	Hourly Emission Rate	3,104 lb/hr (30-day rolling average)	3,104 lb/hr (30-day rolling average)
By December 31, 2014		Unit 3	Unit 4
SO ₂	Control	Low Sulfur Coal	Low Sulfur Coal
	Emission Rate (lb/mmBtu)	0.60 lb/mmBtu (12-month rolling average)	0.60 lb/mmBtu (12-month rolling average)
	Combined Annual Emission Rate	25,097 TPY (12-month rolling)	
BART Control (with Unit 4 Shutdown¹)			
By April 16, 2016		Unit 3¹	
SO ₂	Control	Dry Sorbent Injection (DSI) with Activated Carbon Injection	
	Emission Rate (lb/mmBtu)	0.4 lb/mmBtu (30-day rolling average)	
	Hourly Emission Rate	1,910 lb/hr (30-day rolling average)	
	Annual Emission Rate	8,366 TPY	
Nox	Control	LNB w/ Separated OFA (and Further Control System Tuning)	
	Emission Rate (lb/mmBtu)	0.15 lb/mmBtu (30-day rolling average)	
	Hourly Emission Rate	716 lb/hr (30-day rolling average)	
	Annual Emission Rate	3,137 TPY	
¹ For simplicity, the table reflects AEP/PSO's indication that Unit 4 is the likely unit to be shut down in 2016, but there is no requirement as to which of the two units is shut down first. ² LNB = Low NOx Burners OFA = Over-fired Air ³ An alternative operating scenario is provided in paragraph 12 of the First Amended Regional Haze Agreement, Case No. 10-025, that addresses potential disruption of coal supplies during the time period from January 31, 2014 through April 16, 2016.			

The application of BART to AEP/PSO Northeastern Units 3 and 4 provides an estimated emission reduction of 24,888 tons of SO₂ per year from the baseline beginning in 2016, based on 85% capacity utilization. Table II-3 shows these BART reductions, as well as estimated NO_x emission reductions for the same timeframe.

Table II-3: BART-Level emissions reductions from the baseline, AEP/PSO Northeastern Units 3 and 4

	Baseline Emissions (Units 3 and 4 Combined)		BART Emissions (Beginning 4/16/2016 - Unit 3 Only)		Emission Reductions (Beginning 4/16/2016)
	lb/MMBTU	TPY	lb/MMBTU	TPY	TPY
SO₂	0.9	31,999	0.4	7,111	24,888
NO_x	0.40	14,222	0.15	2,667	11,555

Table II-4 indicates the baseline and anticipated improvement in visibility at mandatory federal Class I areas due to the shutdown of a unit and the installation of SO₂ and NO_x controls (DSI and LNB w/OFA, respectively) on the remaining unit at AEP/PSO Northeastern, calculated as the 3-year average of the the 98th percentile modeled visibility impairment.

Table II-4: Class I Areas Baseline and Visibility improvement with BART controls

Contribution to Visibility Impairment for each Class I Area				
	Wichita Mountains	Caney Creek	Upper Buffalo	Hercules Glade
	(Δ-dv)	(Δ-dv)	(Δ-dv)	(Δ-dv)
Baseline Impairment	1.501	1.627	1.169	1.112
SO ₂ Control (NO _x Baseline)	0.464	0.553	0.402	0.332
NO _x and SO ₂ Control	0.295	0.294	0.216	0.209
Percent Improvement (Reduction)	80%	82%	82%	81%

III. Further Reasonable Progress and Amended Long-term Strategy with Emission Reduction

The long-term strategy described in Chapter VII of Oklahoma’s original Regional Haze SIP submittal addresses visibility impairment at the Wichita Mountains Class I area, and covers the period through 2018 in fulfillment of 40 C.F.R. § 51.308(d)(3). The long-term strategy includes issuance and enforcement of permits limiting emissions from major and minor sources in Oklahoma, state rules which specifically limit targeted emissions sources and categories, and several other ongoing air pollution control programs.

The emissions limitations and other requirements necessary to implement the BART requirements for AEP/PSO’s Northeastern Units 3 and 4 will be incorporated into required DEQ Air Quality Permit(s), as discussed herein. The settlement agreement also provides for further reasonable progress through a schedule of NO_x emissions reductions earlier than the schedule in the previously-approved portion of the Regional Haze SIP, as listed in Table II-2. In addition, the settlement agreement provides for incremental decreases in capacity utilization between January 1, 2021 and December 31, 2026, when the unit will be shut down, with the corresponding reduced emissions listed in Table III-1.

Table III-1: Further Reductions

Further Reasonable Progress over Remaining Unit Life – Unit 3 Emissions during Incremental Decrease in Capacity Utilization		
	SO₂	NO_x
January 1, 2021 – 70% Utilization	5,856 TPY	2,196 TPY
January 1, 2023 – 60% Utilization	5,019 TPY	1,882 TPY
January 1, 2025 - 50% Utilization	4,183 TPY	1,569 TPY
December 31, 2026	Unit Shutdown	

The settlement agreement ultimately provides for Further Reasonable Progress through the reduction of 31,999 tons of SO₂ per year from the baseline following shutdown of the remaining unit after 2026. Table III-2 shows these reductions from the baseline, as well as estimated NO_x emission reductions, based on the planned incremental decrease in capacity utilization for Unit 3 between 2021 and 2026.

Table III-2: Further Reasonable Progress emissions reductions from the baseline

Further Reasonable Progress Reductions over Remaining Unit Life		
	SO₂	NO_x
January 1, 2021 – 70% Utilization	26,143 TPY	12,026 TPY
January 1, 2023 – 60% Utilization	26,980 TPY	12,340 TPY
January 1, 2025 - 50% Utilization	27,816 TPY	12,653 TPY
December 31, 2026 (Both Units Shut Down)	31,999 TPY	14,222 TPY

As required by subparagraph 26(E) of the First Amended Regional Haze Agreement, AEP/PSO will develop and propose a monitoring program to test various operating profiles and other measures required under subparagraph 26(D) to determine whether increased SO₂ removal efficiencies can be achieved during normal operations. The monitoring program will be developed and proposed during the first year of operation of the required controls. AEP/PSO will submit the monitoring program to EPA and ODEQ for review and will implement the monitoring program during the second and third years of operation of the DSI system. AEP/PSO will evaluate and report the results of the monitoring program to EPA and ODEQ. If the evaluation demonstrates that the technology is capable of sustainably achieving an emission rate of less than 0.37 lb/MMBtu on a 30-day rolling average basis without: (1) altering the unit’s fuel supply; (2) incurring additional capital costs; (3) increasing operating expenses by more than a negligible amount; and/or (4) adversely impacting overall unit operations, the emission rate will be adjusted by 60% of the difference between 0.40 lb/MMBtu and the demonstrated emission rate. If the demonstrated emission rate is 0.37 lb/MMBtu or greater, no adjustment will be made and the emission rate from the remaining unit will remain at 0.40 lb/MMBtu.

If the SO₂ emission rate for the remaining coal-fired unit (Northeastern Unit 3) is not reduced to 0.30 lb/mmBtu after the implementation of the control requirements set forth in this revision and the incorporated First Amended Regional Haze Agreement, then DEQ commits to obtain and/or identify additional SO₂ reductions within the State of Oklahoma to the extent necessary to achieve the

anticipated visibility benefits estimated in the CENRAP Base G 2018 regional haze modeling and attributable to reductions in SO₂ emissions after installation of presumptive controls on AEP/PSO Northeastern Units 3 and 4. Any additional SO₂ emissions reductions obtained and/or identified from the northeast quadrant of the State will be presumed to count toward the mass emission reductions necessary to achieve the anticipated visibility benefits. Emissions reductions obtained outside the northeast quadrant that are technically justified will also be counted. If necessary, additional emission reductions shall be obtained via enforceable emission limits or control equipment requirements made enforceable through administrative orders, permits, and/or rulemaking actions. Any additional SO₂ reductions will be obtained and/or identified and a corresponding SIP revision will be submitted to EPA as expeditiously as practicable, but in no event later than the end of the first full Oklahoma legislative session occurring subsequent to AEP/PSO's submission of the evaluation and report required by Paragraph 1(f) of Attachment A to the Settlement Agreement. Moreover, any additional reductions that are obtained prior to the 2018 Regional Haze SIP revision required by 40 C.F.R. § 51.308(f) but not accounted for in the above referenced modeling will be identified in the 2018 revision.

In calendar year 2021, as required by subparagraph 26(G) of the First Amended Regional Haze Agreement, AEP/PSO will evaluate whether the projected generation from the remaining unit can be replaced at lower or equal total projected cost from natural gas or renewable resources. If power is available from such resources at a lower projected total cost (including consideration of AEP/PSO's need to recover its remaining investment in the remaining unit), then the operating unit will be shut down no later than December 31, 2025.

Additional Federal measures, which affect emissions that impact visibility, have been promulgated, proposed, and/or planned since submission of Oklahoma's original Region Haze SIP submission. These additional measures include the Mercury and Air Toxics Standard ("MATS"), as well as other new or revised NESHAPs and NSPS. In addition, visibility improvements are likely to result from implementation of NAAQS revisions, particularly the 2010 SO₂ NAAQS. Reductions in SO₂ and NO_x emissions from other states required under the Clean Air Interstate Rule ("CAIR") and its successor program will and must remain a critical part of Oklahoma's long-term visibility strategy. Future reviews of the Regional Haze SIP will likely provide a clearer evaluation of the effects of the Federal measures on visibility in Class I areas that are currently impacted by Oklahoma sources.

IV. Interstate Transport SIP

Implementation of (1) the revised BART for AEP/PSO Northeastern Units 3 and 4; (2) the First Amended Regional Haze Agreement, Case No. 10-025; and (3) the additional reductions described in Section III, will result in reductions in the amount of Oklahoma emissions that are available for interstate transport. Together, these reductions will address the disapproved portions of the Transport SIP as it relates to AEP/PSO Northeastern Units 3 and 4.

V. Review, Consultations and Comments

A. EPA Review with Parallel Processing

This section describes the review, consultation and public participation process begun for this SIP submittal. As specified in the settlement agreement, the State of Oklahoma will submit this proposed Regional Haze SIP revision, in electronic and paper form, for EPA review on March 20, 2013, along with a request for parallel processing. At that time, the State will also submit a copy of the draft notice of public hearing and opportunity for comment, prepared in accordance with 40 C.F.R. § 51.102 and “Procedures for Notice of Opportunity for Public Hearing and Comment – Oklahoma SIP Review/Revision Submittals.” These state public participation procedures were submitted to EPA for review under 40 CFR § 51.102. In a letter dated August 23, 2012, EPA concurred that they are consistent with the requirements of 40 CFR §51.102 and associated guidance.

Following consultation on the proposed Regional Haze SIP Revision with Federal Land Managers and potentially affected states, and review by the public, this section will be updated to document the consultation process, the public notice and hearing process, and provide a copy of any comments received (placed in an appendix) and a summary of and response to comments. During and following the public review process, an electronic copy of the Regional Haze SIP Revision and related documents (as referenced in the following descriptions) will be posted through links to DEQ’s Regional Haze webpage at:

http://deq.state.ok.us/aqdnew/RulesAndPlanning/Regional_Haze.

B. Federal Land Manager Consultation

As part of the development of this implementation plan revision, DEQ will consult the designated Federal Land Manager (FLM) staff personnel in accordance with the provisions of 40 C.F.R. § 51.308(i)(2). DEQ will provide an opportunity to federal land managers for consultation in person and at least 60 days before holding any public hearing on this implementation plan revision. This consultation will give the federal land managers the opportunity to discuss their assessment of:

- Impairment of visibility at the Wichita Mountains and at other Class I areas;
- Recommendations on the development of reasonable progress goals; and
- Recommendations on strategies to address visibility impairment.

On March 20, 2013, simultaneous with submittal of the request to EPA for parallel processing, DEQ will notify the federal land manager staff of this proposed Regional Haze SIP Revision, and provide them with electronic access to the revision and related documents. DEQ will also notify the federal land manager staff of the public hearing scheduled for May 20, 2013. Any comments received from the FLMs will be considered and posted on the DEQ Regional Haze webpage. The FLM Contact List, comments, and responses will be included in Appendix VII.

C. Consultation with States

Oklahoma conducted an extensive consultation process with states with Class I Areas whose visibility are potentially affected by Oklahoma emissions. On March 20, 2013, simultaneous with submittal of the request to EPA for parallel processing, DEQ will notify the appropriate clean air agency staff for bordering/potentially affected states (Arkansas, Iowa, Kansas, Louisiana, Minnesota, Missouri, Nebraska, New Mexico, and Texas) of this proposed Regional Haze SIP Revision, and provide them with electronic access to the revision and related documents. DEQ will also notify the state agency staff of the public hearing scheduled for May 20, 2013. Any comments received from the state agency staff will be posted on the DEQ Regional Haze webpage. The State Contact List, comments, and responses will be included in Appendix VII.

D. Public Comment Period and Hearing

DEQ will provide notice of a public hearing and opportunity to comment on the proposed Regional Haze SIP Revision by Tuesday, April 19, 2013, as required by 40 C.F.R. § 51.102. DEQ has scheduled a public hearing regarding the implementation plan revision for May 20, 2013 at the DEQ offices in Oklahoma City, Oklahoma. Notice will be posted on the DEQ the Regional Haze webpage. Notice will also be published in at least one newspaper of general circulation at least 30 days before the hearing, and be provided via e-mail to those persons who have expressed an interest in SIP revisions and have supplied their e-mail addresses.

The notice includes information on the availability of the proposed Regional Haze SIP Revision for public inspection at 707 N. Robinson Ave, Oklahoma City, OK, and through the DEQ Regional Haze webpage.

Both written and oral comments received by DEQ from the public will be posted on the DEQ Regional Haze web site. Copies of written comments received will be included in Appendix V and a summary of DEQ's responses to all public comments will be included in Appendix VIII. Appendix IV will contain copies of the notice and notice certification, and Appendix VI will contain copies of the hearing transcript and sign-in sheet(s).

Appendices

Appendix I

AEP/PSO Settlement Agreement

Appendix II

Revised BART Determination,

including

*Supplemental BART Determination
Information submitted by AEP/PSO*

Appendix III

PSO Regional Haze Agreement,

DEQ Case No. 10-025

(February 10, 2010),

as amended by

*the Draft First Amended Regional Haze
Agreement,*

DEQ Case No. 10-025

(March XXX, 2013)

Appendix IV

*Notice of Public Hearing and
Opportunity to Comment,
and
Notice Certification*

Appendix V

Comments Received

Appendix VI

Hearing Transcript & Sign-in Sheet

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Summary of Comments and Responses – FLM and State Comments

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