## **Programmatic Mitigation: Air Quality** RECORD OF DECISION AND RESOURCE MANAGEMENT PLAN AMENDMENTS FOR THE POWDER RIVER BASIN OIL AND GAS PROJECT Draft – April 2003 Appendix A.5.15. Air Quality Page A-39, 40

A variety of potential emission reduction measures (BLM 1999d) are available to further limit NOx and other air pollutant emissions. The evaluation was not intended to rank or identify a required emission reduction measure; the appropriate level of control will be determined and required by the applicable air quality regulatory agencies during the preconstruction permit process. BLM will also continue to cooperate with existing visibility and atmospheric deposition impact monitoring programs. The need for, and the design of, additional monitoring could include the involvement of the EPA Region 8 Federal Leadership Forum and applicable air quality regulatory agencies. Based upon future recommendations, operators could be required to cooperate in the implementation of a coordinated air quality monitoring program. Oil and gas lease terms (Section 6) require the lessee, within the lease rights granted, to take measures deemed necessary by the lessor for the conduct of operations in a manner that minimizes adverse impacts to air quality, as well as other resources.

	Dust Sources						
	Disturbed Areas			Unpaved Road	s <sup>1</sup>		
Mitigation Options	Establish plant cover for all disturbed lands by certain time (re-vegetation)		Apply soil stabilizer	Set and enforce speed limit	Gravel roads	Paved road	
Effectiveness	Level proportional to percentage of land cover	0 – 50% reduction in uncontrolled dust emissions	33 to 100% control efficiency	80% for 15 mph 65% for 20 mph 25% for 30 mph <sup>3</sup>	30% reduction	90% reduction	
Estimated Cost	\$/acre	\$4000/mile	\$2,000 to \$4,000/mile per year	Unknown	\$9,000/mile	\$11,000 to \$60,000/mile	

## Table A-3 Fugitive Dust Mitigation Measures (PM10), Effectiveness and Cost

1. Improved and County roads

 Wetting of construction roads during the construction period. Wetting of construction roads not required for once a month maintenance trips to well pads.

3. Reductions assume 40 mile per hour base speed.

## Table A-4 Nitrogen Oxides (NO<sub>x</sub>) Mitigation Measures Efficiency

	NO <sub>x</sub> Emissions Sources							
	Temporary Diesel							
	Field Compressors	Sales Compressors	Generators <sup>1</sup>	Heavy Equipment				
Mitigation	Implement Best	Implement Best	Register with State;	Voluntary use of				
Options/	Available Control	Available Control	will regulate as	diesel engines				
Efficiency	Technology <sup>2</sup>	Technology <sup>2</sup>	appropriate					
	Typically results in a Typically results in a							
	NO <sub>x</sub> emission rate of NO <sub>x</sub> emission rate of							
	about 1 g/bhp-hr	about 1 g/bhp-hr						

Notes:

 Wyoming is currently registering these generators to determine if NO<sub>x</sub> emissions are significant.

2. BACT could include electric compression