

POTENTIAL AIR QUALITY MITIGATION MEASURES

The following measures are compiled from the Vernal RMP Record of Decision, mitigation developed through recent NEPA documents, BLM Best Management Practices, and suggested mitigation being considered due to new monitoring data. These measures are not applicable in every situation. Also, they are not considered or intended to be comprehensive or required - they can and will be supplemented, modified, replaced, or dropped to better address impact concerns based on site-specific circumstances, new monitoring and modeling data and technology, and regulatory requirements.

- Stationary engine standards (Appendix K of the VRMP).
 - Engines <300 hp = <2.0 g/hp-hr NO_x
 - Engines >300 hp = <1.0 g/hp-hr NO_x
- All internal combustion equipment would be kept in good working order.
- Water or other approved dust suppressants would be used at construction sites and along roads.
- No open burning of garbage or refuse at well sites or other facilities would be allowed.
- Drill rigs used would be equipped with Tier II or better diesel engines.
- Vent emissions from stock tanks and natural gas TEG dehydrators would be controlled by routing the emissions to a flare or similar control device which would reduce emissions by 95% or greater.
- During drilling and completion operations, temporary worker housing would be located on-site.
- Low or no bleed pneumatic valves would be installed on separator dump valves and other controllers.
- During completion operations, flaring would be limited to clean up and production equipment and gathering lines would be installed as soon as possible.
- Well site telemetry would be utilized to eliminate unnecessary pumper travel to the well site.
- Zero emission dehydrators would be used at existing and future compressor stations and production wells.
- Electricity would be utilized to power compressor stations.
- Vapor recovery systems would be installed on production tanks with the potential to emit more than 20 tpy.
- Low-bleed or no-bleed pneumatic devices would be installed on existing and future compressor stations and production wells.
- Green completions would be utilized for all completion activities.
- Lean burn natural gas fired stationary engines would be installed.
- An oxidation catalyst would be used on all natural gas fired engines.
- No drilling would occur from December 21 through March 21 to reduce wintertime emissions.
- Centralized fracing operations would be used where possible.
- Centralized water storage and delivery would be used where possible.
- Off-site centralization of production facilities would be used where possible.
- Off-site centralization of liquids gathering systems would be used where possible.