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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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TO:

Files

FROM:

MJ

Michael J. Suflita, Sr. Reclamation Specialist, Hydrology, Team Lead

RE:

Transformer Installation, Lodestar Energy, Inc., Horizon Mine,
AM01A

SUMMARY:

On July 18, 2001, the Division received amendment AM01A from the Permittee at the Horizon Mine. The amendment is for the installation of a transformer station and other facilities. This Technical Memo is a review of the Hydrologic aspects of that submittal. There are no deficiencies.

TECHNICAL ANALYSIS:

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 784.14, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-301-512, -301-513, -301-514, -301-515, -301-532, -301-533, -301-542, -301-723, -301-724, -301-725, -301-726, -301-728, -301-729, -301-731, -301-733, -301-742, -301-743, -301-750, -301-751, -301-760, -301-761.

Analysis:

The Utah Coal Rules require the following:

742.423. Drainage Control.

742.423.1. Each primary road will be designed, constructed or reconstructed and maintained to have adequate drainage control, using structures such as, but not limited to, bridges, ditches, cross drains, and ditch relief drains. The drainage control system will be designed to pass the peak runoff safely from a 10-year, 6-hour precipitation event, or an alternative event of greater size as demonstrated to be needed by the Division.

TECHNICAL MEMO

742.423.2. Drainage pipes and culverts will be constructed to avoid plugging or collapse and erosion at inlets and outlets.

The amendment calls for installation of a 20-foot extension to existing culvert DC-1. The culvert is designed for a 25-year, 6-hour precipitation event while the regulations require a 10-year, 6-hour event. The culvert is adequate to pass design flows. No other hydrologic aspects are relevant to this amendment.

During review the approved Mining and Reclamation Plan drawings were compared to the amended drawings. Some minor discrepancies were noted. As with any disturbed area modification, upon completion of this transformer installation project, the Operator will need to provide as-built drawings of the entire disturbed area. This will need to include correct locations and designation of all ditches, culverts, and roads. An example is Plate 7-4, although other plates may need to be modified as well.

Findings:

The amendment meets minimum regulatory requirements.

RECOMMENDATIONS:

The amendment can be approved in its present form.