

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

August 25, 2010

TO: File

THRU: Kevin Lundmark, Hydrologist and Team Lead *KWL*

FROM: James Owen, Reclamation Engineer *JEO*

RE: Roads D, F & L, Sunnyside Cogeneration Associates, Star Point Refuse, C/007/0042, Task #3598

SUMMARY:

On August 25, 2010, the Division of Oil Gas & Mining received an application from Sunnyside Cogeneration Associates proposing an amendment to their permit to designate Roads D, F & L as primary roads. The roads will be intended for regular and ongoing use for haul trucks and associated use for loading and hauling of the refuse material at the Star Point Refuse mine site.

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TECHNICAL ANALYSIS:

OPERATION PLAN

MINING OPERATIONS AND FACILITIES

Regulatory Reference: 30 CFR 784.2, 784.11; R645-301-231, -301-526, -301-528.

Analysis:

There are no new mining operations or mining facilities associated with the application. All mining facilities within the Star Point Permit Area were previously permitted by CPMC and were transferred to Sunnyside without modification.

Findings:

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

EXISTING STRUCTURES:

Regulatory Reference: 30 CFR 784.12; R645-301-526.

Analysis:

The application contains no changes that are to be made to existing structures. If modification to the existing structures becomes necessary, a plan will be submitted to DOGM addressing the requirements of the Utah Coal Mining Rules. No modifications will be performed to existing structures without proper approval.

Findings:

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

RELOCATION OR USE OF PUBLIC ROADS

Regulatory Reference: 30 CFR 784.18; R645-301-521, -301-526.

Analysis:

There is no relocation or new use of public roads associated with the application. County Road No. 290 is adjacent to the Star Point Permit Area. Carbon County is responsible for the maintenance of the road. The applicant states that any mining debris will be removed from the public road via scraping activities. Stop signs are posted at entrances to all public roads for mining-related equipment to stop prior to entering. At the intersection of Road D (newly proposed primary road) and County Road 290, there is a Yield sign that controls traffic and allows mining traffic access to the road.

Findings:

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

COAL RECOVERY

Regulatory Reference: 30 CFR 817.59; R645-301-522.

Analysis:

The mining plans for this site consists of mining coal refuse. All coal refuse is located within the permit boundary. There are no new coal recovery related amendments within the application. Coal processing does not occur within the Star Point Permit Area. Coal excavation/recovery is explained in Section 523 of the MRP.

Findings:

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

SUBSIDENCE CONTROL PLAN

Regulatory Reference: 30 CFR 784.20, 817.121, 817.122; R645-301-521, -301-525, -301-724.

Analysis:

No material damage or diminution within the permit area has been or will be caused by subsidence. No past or future underground coal mining operations have or are likely to occur within the permit area because no underground coal resources are available within the permit area.

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Findings:

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

SLIDES AND OTHER DAMAGE

Regulatory Reference: 30 CFR Sec. 817.99; R645-301-515.

Analysis:

The application contains no new amendment details that are related to slides, slope protection, or other damage. All details will remain as is detailed in the mine's MRP.

Findings

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

ROAD SYSTEMS AND OTHER TRANSPORTATION FACILITIES

Regulatory Reference: 30 CFR Sec. 784.24, 817.150, 817.151; R645-301-521, -301-527, -301-534, -301-732.

Analysis:

The applicant states that all primary and ancillary roads within the Star Point Permit Area are identified on maps 534.100a through 534.100h and are labeled roads D, F, G, H, k, L, M, and Haul Road. Road M is a future road that is not anticipated to exist until future need requires its construction. Road K is also a future road that will be used for reclamation purposes. The maps that are included with the application are 534.100b, 534.100g, 534.100h. The applicant proposes to construct Road D and upgrade existing roads F & L to primary roads that will have regular use by haul truck to access the mine's refuse pile, and for loading and hauling activities.

Primary Road D is intended for regular use by haul trucks to provide access to the northeasterly point of Refuse Pile A. The 20'-60' wide road will have gravel or road base surface and a grade that ranges from 0% to 10%. This road will also facilitate loading of excavated material from the refuse pile. The applicant states that construction of this primary road will begin within 1-2 years following Division approval.

Primary Road F is intended to provide access to the refuse pile at a more gentle than the Primary Haul Road. It is also intended to facilitate better travel efficiency. The 15'-30' wide road

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will have a maximum grade of 5% and crosses portions of an old asphalt parking lot. The road will have a gravel surface.

Primary Road L will be a one way access road to the middle of Refuse Pile A and the mine's Disposal Area. The road will be approximately 15'-30' wide and its grade will range from 0% to 6.2%. The road is surfaced with gravel and road base. The road provides additional access to the south side of Pond 9. The applicant states that efforts to upgrade this road to a primary road will begin within 1-2 years following Division approval.

Table 534.200a on page 500-22 of the application contains road specifications including name, surface type, surface width, length, maximum grade, minimum grade, and average grade.

Findings:

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

SPOIL AND WASTE MATERIALS

Regulatory Reference: 30 CFR Sec. 701.5, 784.19, 784.25, 817.71, 817.72, 817.73, 817.74, 817.81, 817.83, 817.84, 817.87, 817.89; R645-100-200, -301-210, -301-211, -301-212, -301-412, -301-512, -301-513, -301-514, -301-521, -301-526, -301-528, -301-535, -301-536, -301-542, -301-553, -301-745, -301-746, -301-747.

Analysis:

There are no new changes in terms of the handling of spoil and waster materials at the Star Point Mine site. Details of spoil, coal mine waste, refuse piles, burning and burned waste utilization, non-coal mine waste, designation of non-coal mine waste materials, final disposal of non-coal mine waste materials, and hazardous waste will remain as previously approved by the division, and as expressed in the MRP. Coal refuse that is unusable will be discarded in the disposal area as shown in MAP 521.100a of the MRP. Normally, coal wastes would be disposed of in a refuse pile. However, due to the nature of the Star Point operation, (excavating existing refuse piles) coal waste will be disposed of in an area other than the refuse pile.

Findings:

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-148, -301-

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512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

Analysis:

The application contains no new amendments for hydrologic information. Three sediment ponds and interim sediment traps are utilized on the mine site. These hydrologic facilities will continue to be used to treat runoff water throughout the operation. The most recent stability analyses of the sediment pond embankments reveal that the safety factors are within the limits required by the Utah Coal Mining Rules.

Findings:

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

SUPPORT FACILITIES AND UTILITY INSTALLATIONS

Regulatory Reference: 30 CFR Sec. 784.30, 817.180, 817.181; R645-301-526.

Analysis:

There are no new support facilities or utility installations included in the application. All facilities within the Star Point permit area will be reclaimed according to the details specified in the mine's MRP. Water and Air Pollution control facilities are utilized at the mine site but will not be altered in any way in association with this application.

Findings:

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

MAPS, PLANS, AND CROSS SECTIONS OF MINING OPERATIONS

Regulatory Reference: 30 CFR Sec. 784.23; R645-301-512, -301-521, -301-542, -301-632, -301-731, -302-323.

Analysis:

The application includes updated version of Maps 534.100b, 534.100g, and 534.100h. Map 534.100b contains plan, profile, and multiple cross section views of Road L. Road L will be surfaced with a min 4" gravel/road base on top of compacted granular soils. Map 534.100g

contains plan, profile, and multiple cross section views of Road D. Road D will be surfaces with a min 2" +/- gravel/road base on top of compacted granular soils. Map 534.100h contains plan, profile, and a cross section view of Road F. Road F will maintain its existing surface of intermittent pavement and gravel/road base.

A registered professional engineer has stamped maps 534.100b, 534.100g, and 534.100h, but they are not certified due to lack of signature across the seal and date.

Findings:

With the exception of proper certification, the contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

RECLAMATION PLAN

ROAD SYSTEMS AND OTHER TRANSPORTATION FACILITIES

Regulatory Reference: 30 CFR Sec. 701.5, 784.24, 817.150, 817.151; R645-100-200, -301-513, -301-521, -301-527, -301-534, -301-537, -301-732.

Analysis:

All reclamation requirements will remain as detailed in the mine's MRP. No reclamation plans, timetables, processes, requirements, exceptions, etc. will be modified due to this application.

All roads will be reclaimed after they are no longer needed for mining and reclamation operations, except those specifically designated for an industrial post mining land use. Roads will be reclaimed by pulling fill from the down slope and placing it in the road cuts. The replaced fill material will be shaped to conform to the adjacent terrain and to meet natural drainage patterns.

Findings:

Contents and information provided are sufficient enough to meet the minimum requirements of this section of the Utah Coal Mining Rules.

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RECOMMENDATIONS:

This amendment is recommended for conditional approval. Final approval will be recommended upon when the Division receives correctly certified copies of all maps associated with this application.

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