

## Module 10: Operation Plan

This Module is designed so that it can be used for new permit applications and permit revision applications. When using it to complete a revision application, the responses may reference the original approved application or be worded to apply specifically to the new activity or site being proposed. Information submitted under this Module must be certified by a licensed professional engineer.

### 10.1 Description of Operations

a. Provide a description of operations that will take place under this permit.

- i. If the operation involves underground mining, describe the method of mining (longwall, room and pillar, etc.); the estimated life of the mine; the type of haulage and underground machinery; the maximum number of working faces; the anticipated annual production in tons; the anticipated underground acreage that will be affected each year; surface activity sites and the activities which will take place at each (coal storage, ventilation, rock dust transport, etc.); the means by which coal will be transported from the operation; and the system that will be used to convey mine drainage to treatment. If mining will re-affect existing workings, identify the company that developed those workings and the time frame during which that mining took place.

LCT Energy, LP is proposing an underground expansion to the existing mining operation on the Lower Kittanning coal seam called the Rustic Ridge #1 Mine. The mine continues to be a room and pillar mine and retreat (pillar extraction) mining is not proposed. The proposed underground expansion adds approximately 1,452.0 acres of underground permit area and 1411.5 acres of subsidence control plan area.

Conveyor belt haulage is utilized to transport the coal from the working sections to the surface. Underground machinery to be used includes: two (2) continuous miners, shuttle cars and/or continuous haulage, roof bolters, feed breakers, pumps, battery and diesel scoops, battery and diesel man trips and rock dusters. The mine will employ, at a minimum, two (2) coal producing sections working two (2) shifts per day.

The proposed reserves provide an estimated mine life of approximately 19 years at a production rate of 600,000 tons per year. The mining is anticipated to progress at a rate of approximately 200 acres per year.

No additional surface acres are proposed in this application. No trucks will be permitted within the coal stockpile area. Also, coal material shall not be tracked onto the public road nor allowed to enter erosion and sedimentation facilities.

Waters pumped from the mine will be limited to 1.44 MGD (1000 gpm).

- ii. If the operation involves coal preparation, describe the estimated life of the operation; the types of processing equipment used; media used in separation processes; chemical treatment of coal or refuse; source and quality of make-up water; the means by which coal will be transported to and from site; and whether the facilities are designed to recirculate or discharge water from the coal preparation circuit.

Not applicable. No coal will be processed on site.

- iii. If the operation involves coal refuse disposal:

Not applicable.

- (1) Describe the type of operation (head of hollow fill, cross valley embankment, side hill embankment, ridge embankment, heaped embankment, surface mine backfill, disposal into underground mine workings, etc.); the estimated life of the operation; the type of equipment which will be used to handle and compact refuse; the systems that will be used to monitor, collect, manage and treat runoff and leachate; and any chemical treatment to which refuse will be subjected (surfactants, bactericides, alkalizing agents, etc.)

(2) If the operation does not involve disposal in abandoned, inactive or active underground mine or in abandoned or unreclaimed surface mines, outline the technical, economic and safety considerations prohibiting such disposal.

- b. If the operation will involve the discharge of coal processing wastes, underground mine development wastes, coal ash, mine drainage treatment sludge, flue gas desulfurization sludge, or inert stabilizing materials to underground workings:

Not applicable.

- c. Describe the nature of the material to be discharged, the system which will be used to convey the material to the point of discharge, and the means of controlling the material within the underground workings.

Not applicable.

- d. If the operation will include the use of fly ash or bio-solids, describe the purpose for which the material will be used and the site(s) on which it will be used.

Not applicable.