

ABSTRACT

PT. Adaro Indonesia is a company engaged in coal mining. PT. Adaro Indonesia activities is to supervise the quality of coal to be delivered to the consumers in order to conform to the quality standards set by the coal companies. Coal Quality change monitoring was done from the front to the ROM coal stockpiling Stockpile 17. Changes in coal quality can be determined based on the results of the coal sampling conducted by a team of quality control PT. Adaro Indonesia. Sampling of coal mining is done on the front and at the time of accumulation in ROM Stockpile 17. Coal quality test data analysis that has been done, it can be seen that the quality changes occur, that is :

- a. Total moisture of the coal T120 based on drill data, mining front, and ROM stockpile 17 of 27.3%, 29.3%, and 28.7%. Total moisture of the coal T200 based on drill data, mining front, and ROM stockpile 17 was 27.8%, 30.1%, and 30.5%.
- b. T120 Ash content based on drill data, mining front and 17 ROM stockpile of 1.5%, 1.6%, and 1.7%. T200 ash content based on drill data, mining and ROM front stockpile 17 of 0.9%, 1.3%, and 3%.
- c. Calorific value based on the data of coal T120 drill, front mining and ROM stockpile 17 of 4835 Kcal / kg, 4819 Kcal / kg, and 4803 Kcal / kg. Calorific value based on drill data T200 coal mining front and ROM stockpile 17 of 4887 Kcal / kg, 4695 Kcal / kg and 4518 kcal / kg.

The cause of the change in total moisture content, ash content and calorific value of the ROM Stockpile 17 among other drainage system that was not functioning optimally, the degradation of the fine grain size of the coal that makes it easy to absorb more water, dust floating around the stockpile, and the ground floor stockpiling excavated while participating demolition. From the observations made, it is necessary efforts in order to minimize loss of quality coal, some of them:

- a. Repair the drainage system in ROM Stockpile 17 in order to make it function optimally.
- b. Perform road watering to reduce the fly dust.
- c. The demolition of the coal bucket wheel loader where lies a little higher than the ground floor embankment approximately 15 cm so that the soil does not go untapped.
- d. Installing wind antidote At around ROM Stockpile in the form of trees or large plants and unobstructed so the amount of dust can be reduced.