

## **ABSTRACT**

PT. Surya Darma Kencana Sakti (SSDK) is a company engaged in coal mining. PT. SSDK activities is to supervise the quality of coal to be delivered to consumers in order to conform to the quality standards set by the coal companies. Monitor changes in the quality of coal mining is done from the front until the demolition of coal on stockpile I. Changes in coal quality can be determined based on the results of sampling of coal carried by PT. Geoservice. Sampling coal mining is done on the front, belt conveyor in crushing plant and the coal tubs dumptruck when unloaded from the stockpile I.

Coal quality test data analysis that has been done, it can be seen that the quality changes occur is that:

- a. Ash content (ash) on the mining front 2.32%, ash content increased to 2.47% when the coal is in the crushing plant, and ash content increased again to 3.19% at the time of the unloaded coal stockpile I.
- b. Calorific value (CV) on the mining front 5.629Kkal/kg, calorific value dropped to 5.622Kkal/kg while in the crushing plant and calorific value back down to 5.606Kkal/kg when unloaded coal from the stockpile I

Cause of the increase in moisture content and ash content of the stockpile I, among others drainage system that is not functioning properly, the degradation of the fine grain size of the coal that makes it easy to absorb more water, dust floating around the hoarding, and hoarding the ground floor while participating unearthened demolition.

From the observations made, it is necessary efforts in order to minimize loss of quality coal, which include:

- a. Improve the system penyaliran I stockpile in order to function properly.
- b. Perform road watering to reduce dust bertebangan.
- c. To supervise the cleanliness of the bath dumptruck.
- d. The demolition of the coal bucket wheel loader where lies a little higher than the ground floor deposits.