ABSTRACT

The study was conducted at the Banko Barat Pit 1 PT.Bukit Asam (Persero) located in Lawang Kidul sub-district, Muara Enim district, South Sumatra Province.

The results show that the system CHF coal production target of 3.4 million tons / year or 9714.29 tons / day was not achieved because of the high barriers at work on the system load in CHF and high stand-by time bin TLS because waiting for the train transporting coal. The data used is the data for 4 years (2007 to 2010). 2010 data is used as reference data, because the year is the best achievement of the coal production ever achieved. At CHF system load in the realization of effective working hours only at 10.23 hours / day, while the available work time 21.14 hours / day, productivity feeder for only 49.98 tons / hour. While the realization of the system CHF load out effective working time of only 7.67 hours / day by the number of trains as much as 6 trains / day, 1,500 tons of coal tonnage / train. The low use of effective work time resulted in levels of readiness (availability) CHF system is low, making repairs using the statistical method several experiments aimed at obtaining the best effective working time.

Made improvements to the way more hours effective load on the system in a CHF 12.96 hours / day with the amount of feed coal into the hopper remains 749.64 ton / hour, while the CHF system load effectively carried out additional work hours working time effectively to 13.62 hours / day, the amount of feed coal remain 1027.72 tons / hour . The addition of effective working time of the calculation method based on statistics.