ABSTRAK

Pandemi *covid* 19 menyebabkan turunnya konsumsi BBM yang berdampak pada turunnya produksi BBM. Penurunan produksi BBM merupakan suatu tantangan bagi unit pengolahan untuk melakukan inovasi dalam menjalankan proses bisnis dan operasionalnya. Refinery Unit (RU) IV Cilacap, merupakan salah satu unit pengolahan terbesar di Indonesia. RU IV Cilacap memiliki kapasitas primer proses mencapai 348 *Matric Barrel Per Stream Day* (MBSD) dan beberapa unit secondary proses, salah satunya RFCC.

Penurunan konsumsi BBM menyebabkan RU IV Cilacap harus menurunkan kapasitas produksinya sampai kapasitas terendah, *Turn Down Ratio* (TDR) pada prima unit. Dengan kapasitas TDR pada primer unit, berdampak pada *feedstock secondary unit*. Unit RFCC yang beroperasi dengan mengolah produk bawah (residu) dari primer unit mengalami kekurangan *stock feed.* Bila kekurangan *feed* ini tidak dapat diatasi, akan berpotensi pada stop unit RFCC. Untuk menghindari terjadinya hal tersebut, dilakukan inovasi dengan mendatangkan *external feed* dari unit operasi yang lainnya. Penambahan *external feed* ini akan mengubah pola operasional *supply feed* unit RFCC. Semula unit RFCC beroperasi dengan *single grade feed residue* berubah menjadi *multi grade feed residu*e. Dalam penelitian ini, penulis akan mempelajari hal-hal apa saja yang perlu diperhatikan dengan adanya perubahan tersebut. Selanjutnya, penulis akan fokus pada pengaturan *inventory stock feed* dengan membuat tools yang dapat digunakan untuk melakukan perencanaan *supply external feed.* .

Kata kunci : *Inventory feed stock* , RFCC, *Refinery Unit* IV Cilacap

ABSTRACT

. The COVID-19 pandemic has caused a decrease in fuel consumption which has an impact on the decline in fuel production. The decline in fuel production is a challenge for the processing unit to innovate in carrying out its business processes and operations. Refinery Unit (RU) IV Cilacap, is one of the largest processing units in Indonesia. RU IV Cilacap has a primary process capacity of 348 Matric Barrel Per Stream Day (MBDS) and several secondary processing units, one of which is RFCC.

This decrease in fuel consumption has caused RU IV Cilacap to reduce its production capacity to the lowest capacity, the Turn Down Ratio (TDR), in the primary unit. With the TDR capacity in the primary unit, it has an impact on the secondary unit's feedstock. The RFCC unit which operates by processing the bottom product (residual) from the primary unit is experiencing a shortage of stock feed. If this lack of feed cannot be overcome, it will potentially stop the RFCC unit. To avoid this from happening, innovations were made by bringing in external feeds from other operating units. The addition of this external feed will change the operational pattern of the RFCC supply feed unit, which originally operated with a single grade feed residue to a multi-grade feed residue. This study examines what things need to be considered with these changes. Furthermore, this research will focus on managing inventory stock feeds by creating tools that can be used to plan external feed supply.

Keywords: Inventory feed stock, RFCC, Refinery Unit IV Cilacap