

SUMMARY

STUDY INTEGRASI SISTIM PENJADWALAN PEMELIHARAAN TANKI DENGAN POLA OPERASIONAL KILANG DI PERTAMINA UNIT PENGOLAHAN IV CILACAP

STUDY OF INTEGRATED MAINTENANCE TANKS SCHEDULING TO REFINERY OPERATIONAL MODE
AT PERTAMINA UNIT PENGOLAHAN IV CILACAP

Created by SUPRIJADI, EDY

Keyword : : forecast crude demand

Description :

Jadwal pemeliharaan tanki sering tidak dapat dilaksanakan sesuai dengan jadwal yang telah ditentukan, karena beberapa sebab terutama karena tanki tidak dapat direlease oleh bagjan operasi. Penyusunan jadwal pemeliharaan tanki yang diintegrasikan dengan pola operasional kilang di Pertamina Unit Pengolahan IV Cilacap merupakan hal yang sangat penting. Hal ini berhubungan erat dengan ketepatan pelaksanaan pemeliharaan tanki tersebut.

Pada tesis ini dilakukan penyusunan jadwal pemeliharaan tanki yang terintegrasi dengan pola operasi kilang. Pertama-tama dilakukan peramalan terhadap kebutuhan crude dan produk untuk setiap bulannya berdasarkan data 5 tahun terakhir. Kemudian jadwal pemeliharaan tanki yang didasarkan pada standart enjiniring akan diintegrasikan dengan pola operasi kilang berdasarkan hasil peramalan tersebut diatas. Dengan cara ini dapat diketahui kapan sebetulnya masing-masing tanki dapat dilakukan pemeliharaan tanpa mengganggu operasional kilang. Selanjutnya dibuat suatu program komputer untuk memudahkan pelaksanaan penyusunan jadwal pemeliharaan tanki.

Dari analisa data diperoleh suatu model peramalan yang sesuai untuk kebutuhan crude yaitu model Decomposition Multiplicative Trend Plus Seasonal, sementara model Decomposition Additive Trend Plus Seasonal sesuai untuk peramalan kebutuhan produknya. Kemudian dari hasil peramalan tersebut dapat disusun jadwal pemeliharaan tanki yang sudah terintegrasi dengan pola operasi kilang. Dengan sistim penjadwalan ini perencanaan pemeliharaan tanki dapat dilakukan dengan lebih baik, lebih cepat dan lebih flexibel terutama jika terjadi perubahan jadwal yang mendadak karena emergency shut down,

Description Alt:

Tanks maintenance implementation is often not appropriate to the schedule that has been made before, because the tank was needed by operation department so the tank could not be released for maintenance. Arrangement of tanks maintenance scheduling which integrated to refinery operational mode at Pertamina refinery processing unit IV Cilacap is very important in order to make tanks maintenance implementation on schedule.

In this research was done the arrangement of tanks maintenance scheduling. which integrated to refinery operational mode. Forecasting of crude and product demand based on 5 years previous data was done at the first time. After that, the tanks maintenance scheduling based on engineering standart and technical view would be integrated to refinery operational mode based on the forecasting of crude and product demand in order to know when the tank could be repaired. At last, a computer program was created to arrange tanks maintenance scheduling easily.

The result of data analyst indicate that Decomposition multiplicative Trend Plus Seasonal was a appropriate model to forecast crude demand while decomposition additive Trend Plus Seasonal was a appropriate model to forecast product demand. Based on the forecasting was arranged tanks maintenance scheduling which has been integrated to refinery operational mode. Based on the scheduling, better, faster and fiexible planning of tanks maintenance could be created especially when the scheduling was changed suddenly because of emergency shut down.

Contributor : DR. Ir. Patdono Suwignjo, M.ENG.Sc.
 Drs. Haryono, MSIE.

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Contact Person :

Mr. Edy Suprayitno (edy_supra@its.ac.id)

Mrs. Ansi M. Putri(ansi@its.ac.id)

Mr. Agus Setiawan (setiawan04@its.ac.id)

Mrs. Dewi Eka Agustina (dee@its.ac.id)

Thank You,

Nur Hasan

ITS Digilib Supervisor