

**ANALISIS PENGENDALIAN KUALITAS BAHAN BAKAR AVTUR
PADA TANGKI TIMBUN DI PT. XYZ TERHADAP NILAI *ELECTRICAL
CONDUCTIVITY* SELAMA MASA COVID-19**

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Abstrak

Pada proses penerimaan Avtur/Jet A-1 oleh PT. XYZ, produk yang diterima seringkali tidak memenuhi standar spesifikasi pada nilai *Electrical Conductivity*. Untuk mengatasi hal tersebut, maka dilakukan *doping* stadis 450 yang dapat meningkatkan nilai *Electrical Conductivity*. Dalam melakukan *doping*, terdapat ketidaksesuaian (*inefisien*) dalam penggunaan stadis 450, yang ditunjukkan dengan selisih antara target CU dengan CU akhir. Dimana hasil yang didapat menunjukkan bahwa seluruh CU akhir tidak sesuai dengan target CU dengan rata-rata selisih sebesar 41.67 pS/m. Selain itu, kondisi pandemi saat ini mengakibatkan penimbunan Avtur/Jet A-1 pada tangki timbun menjadi lebih lama. Sehingga PT. XYZ meningkatkan target CU pada proses *doping*, agar nilai CU dapat sesuai ketika digunakan. Penentuan target CU secara coba-coba tanpa pertimbangan baku, akan menimbulkan pemborosan dalam penggunaan stadis 450 serta meningkatkan potensi ketidaksesuaian yang terjadi pada proses *doping*. Untuk meminimalisir hal tersebut, maka dilakukan perhitungan penurunan CU Avtur/Jet A-1 sebagai salah satu usulan dalam mempertimbangkan target CU yang akan dicapai. Hasil penurunan yang diamati berdasarkan data penimbunan menunjukkan bahwa terjadi rata-rata penurunan sebesar 6.4646 pS/m per hari.

Kata Kunci : Avtur/Jet A-1, *Electrical Conductivity*, *Conductivity Unit*, *Six Sigma*, Stadis 450.

ANALYSIS OF QUALITY CONTROL OF AVTUR FUEL IN THE STORAGE TANK AT PT. XYZ ON THE VALUE OF ELECTRICAL CONDUCTIVITY DURING COVID-19

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Abstract

In the process of receiving Avtur / Jet A-1 by PT. XYZ, the product received often does not meet the specification standard on the Electrical Conductivity. To overcome, a doping stadis 450 was carried out which could increase the Electrical Conductivity value. In the doping process, there are inefficiencies in the use of the stadis 450, which is indicated by the difference between the target CU and the final CU. The results obtained indicate that all the final CUs are not following the CU target with an average difference of 41.67 pS/m. Also, the current pandemic conditions have resulted in the stockpiling of Avtur/Jet A-1 in the stockpile tank for a longer time. So that PT. XYZ increases the CU target in the doping process so the CU value can be appropriate when used. Determination of CU targets in trial and error without standard considerations, will lead to waste in the use of stadis 450 and increase the potential for discrepancies that occur in the doping process. To minimize this, a reduction in CU Avtur/Jet A-1 is calculated as one of the suggestions in considering the CU target to be achieved. The results of the observed decline based on hoarding data showed that there was an average decline of 6.4646 pS/m per day.

Keywords: Avtur/Jet A-1, *Electrical Conductivity*, *Conductivity Unit*, *Six Sigma*, Stadis 450.