

ABSTRACT

PT Tarumatex Bandung is a company located at Jl. Jend. A. Yani no. 806 and engaged in textile production sector. Along with its grey cloth production process, there are some obstacles that cause production line inhibition and company targets unattainability. From the four divisions of the Production Department (*warping*, *sizing*, *drawing in*, and *weaving*), it seems like the *weaving* division has obstacles with the highest rate of frequency and severity, the highest rate of work environment noise, and the highest number of machine responsibility for each operator. The purpose of this research is for measuring the *weaving* operator's workload and determining the ideal number of operators needed. The six indicators of NASA-TLX (Mental Demand, Physical Demand, Time Demand, Performance, Effort Level, and Frustration Level) are calculated each ratings and tallies after all the questionnaires are filled by the operators to determine their weighted workload (WWL) number. The calculation of operators needed result shows that to create an efficient and homogeneous workload spreading, it is recommended for the Group A to add 4 personeels, Group B to add 6 personeels, and Group C to add 2 personeels.

Key Words : Workload, Weighted Workload (WWL), NASA-TLX, Operator