

ABSTRACT

Indonesia Aerospace(Iae)Company has a new aircraft concept, it is N245 aircraft with a passenger capacity higher than its predecessor CN235 aircraft, this makes the need for facility design in the plane that had to be adjusted due to the addition of such capacity. One was in the galley or commonly called a galley. The addition of passenger capacity directly affects the capacity of food needs to be provided in the galley, so it is necessary to design the layout of the galley facilities that can meet the food needs of passenger capacity. In this study, the design of the facility layout is done using algorithms galley CRAFT (Computerized Relative Allocation of Facilities Technique), which is generally the algorithm is used to design the layout of the factory production facilities that have different characteristics with the characteristics of the layout of this galley facilities.

The data used in this algorithm include the initial layout, the frequency of displacement, the coefficient of the cost, and the proximity factor between departments, where the data will be input to one of the software CRAFT is WinQSB. The results of the evaluation and iteration of the initial layout will memeperlihatkan a total value of fees and a draft new layout. The design of the new layout requires some adjustments to the alternate compartments in the galley. Some alternative layout of this adjustment will then be evaluated again to get an alternative layout the most optimum views of the value of total costs. The selected alternative will be proposed for the layout of facility at N245 aircraft galley.

Key words : Facility Layout, CRAFT Algorithm, WinQSB, Galley, Kitchen of Aircraft