

ABSTRACT

Incinerator Bandung Techno Park is a waste processing tool that is able to burn a trash more efficiently than ordinary combustion with the ability of insinerais process can reduce 75-80% residual burning. The output of the incineration process is ash, combustion gases, particulates and heat. For the overall maintenance process is obtained on the fuel incinerator fuel the longest in maintenance with the intensity of the routine. Obtained maintenance process time for 648.3 seconds made 2 times a week.

This research aims to support the maintenance process of the incinerator fuel controller, the design of the incinerator fuel controller using the design for assembly (DFA) approach using Boothroyd and Dewhurst method. The DFA approach is chosen to simplify the maintenance process of the incinerator fuel controller, Maintenance process.

Provided 2 incinerator fuel incinerator design in the form of initial design and design proposal. In the initial design obtained assembly time for 249.65 seconds, the number of components as much as 32 pieces and an efficiency value of 27.64%. While the design proposal obtained assembly time for 107.99 seconds, the number of components as much as 15 pieces and efficiency value of 38.89%

Keywords: Incinerator, incineration, incinerator fuel controller, Design for Assembly, Efficiency, Boothroyd and Dewhurst