DESIGN AND REALIZATION OF OPERATOR’S COMPUTER FOR PROCESS CONTROL SIMULATOR

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ABSTRACT

In industrial world, there are process of production operated by alternately. In order to take place without constraint, it is needed monitoring in each process. If there are many process of production in industry, so there are many power required to monitoring and so many the risk of accident. Therefore, it is needed an operator to monitoring and controlling process. So an operator have skill to controlling process in factory which is needed training for new operator.

The appliance which is required to give the training for new operator is simulator. Specially of simulator which is done at this research is process control simulator to mix substance in saturator. This process represent the part of the process of manure ZA in PT. Petrokimia Gresik. This simulator consist of three computer which is connected. They are instructor’s computer, operator’s computer and server’s computer. So simulator look like the system as in industry, that is required controller to control the process. Not only that, it is required design of database to save data during process operate.

Process control simulator have succeeded run in two method. They are offline and online. So, process control simulator can used as appliance to training process control.

Keyword : Process Control Simulator, Plant ZA, PID.