DESIGN AND IMPLEMENTATION PI CONTROLLER OF THE SYSTEM, SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) FOR SYSTEM INDEPENDENT – LEVEL SETTINGS

ABSTRACT

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Setting the level is a process used to maintain water levels for remain within a predetermined set point conditions. In application of this system has a load rating change when there is a change in the valve opening is not in accordance with the set point. Such changes may result in the output to be not in accordance with the desired

Therefore, designed a PI controller (Proportional plus Integral) to control the plant in order to maintain stability and to speed up the response work. PI controller (Proportional plus Integral) in this system will be applied to the system of Supervisory Control And Data Acquisition (SCADA) as a monitoring and control system of the plant.

From the test results, the PI controller (Proportional plus Integral) in order to control plant responses that do not correspond to the set point value, the average value of the steady state error at the time of implementation of 1.6%.

***Keywords*: *Controller,PID, Level, SCADA*.**

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