

ABSTRACT

The implementation of automation industry gives the positive impact that makes one of reasons in industries to change their technology to the automation technology. The implementation of this automation has affect to the number of product that able to be produce massively with high production rate. The application of automation also can improve the precision and accuracy of the process such as the quality of product that have already produced. The implementation of ideal automation system needs consideration and planning maturely to avoid the redesign system because the automation system needs high investment cost enough.

User requirements specification (URS) is the first step in the implementation of automation system and it crucial to determined quality and cost of product. URS design is give a must the user to provide explanation in detail of process description of automation system so appropriate with automation needs. URS have three parts, those are process description, piping and indstrumentation diagram, and ontrol philosophy. URS arrangement is expect to be reference in the planning, designing, and implementation of automation system.

Keywords : Automation, URS, Process Description, P&ID, Control Philosophy