International Journal of Psychosocial Rehabilitation, Vol. 23, Issue 04, 2019
ISSN: 1475-7192

Recollection of Data Logging for Paint Industry

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Abstract--- *In this project, work focus on a batch Process simulation and Recording the data (Data logging) from the process which can be retrieved for future reference. The process is about the simulation of the Batch process in which the mathematical programming model for optimal scheduling of the operations of a batch processing chemical plant, capable to handle all possible deterministic and many stochastic variations in the set-up and operation times of the batch operations developed previously is applied to operations in a plant of a leading PAINT manufacturer.*

Keywords--- *Data logging, Batchprocess, Stochastic.*

I. PROPOSED WORK

The plant focused on in this work is a multi-product, batch processing plant having a wide variety of products, competing for various process equipment on a production site. The plant under consideration operates with respect to an "order based" production policy. Thus, this application can be classified as a short term scheduling of a real case multi-product batch processing plant.

The process is about the DATA recorded during the Batch process run which can be later used for Analysis in future reference analyzing to reduce processing flaws, improve production quality, increase efficiency, and save time and money. This recording and Historical availability of the data can also be extended to other Continuous processes in the manufacturing plant.

The project implemented in Labview shows an example of how custom controls can be used to design front panels that are attractive and intuitive for end users. This VI uses various Tank and Boolean controls to show the composition and volume of liquids in various containers throughout the paint manufacturing process. This VI is using simulated data, but it would be useful to incorporate into a system

Steps to use LABVIEW tool:

Step 1: open the data marking demo.lv project

Step 2: launch data set marking demo.vi from the project

Step 3: run the VI

Step 4: change the batch ID

Step 5: start run

Step 6: start paint simulation and data logging

Step 7: change the tank simulation and change the set point for 2-3 times

Step 8: after simulation go to data logging and press stop run button this will stop data logging

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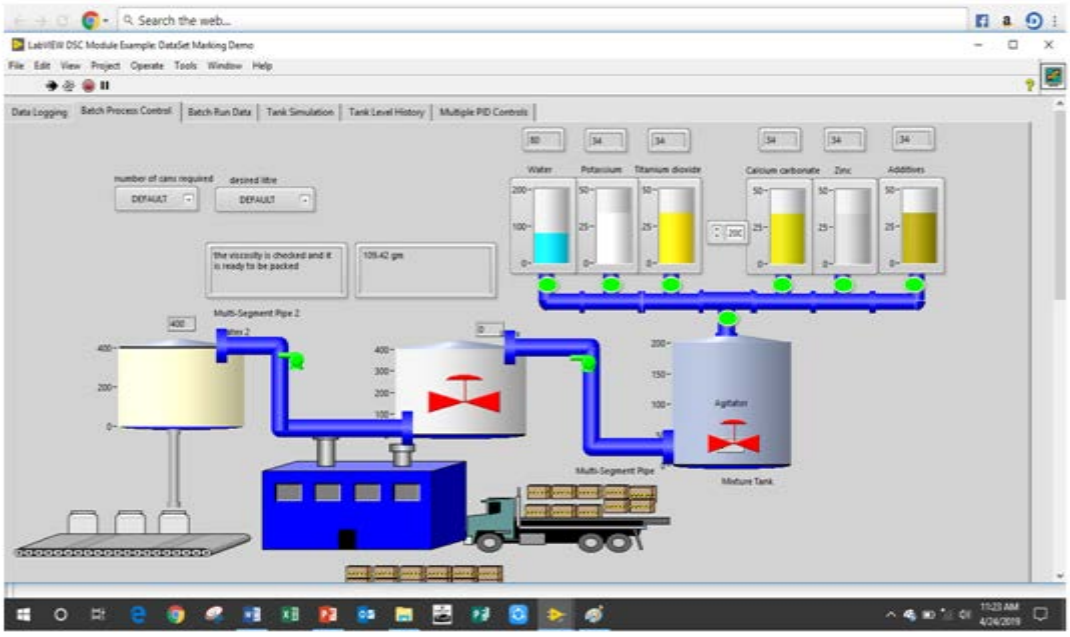
Received: 09 Apr 2019 | Revised: 08 May 2019 | Accepted: 07 June 2019

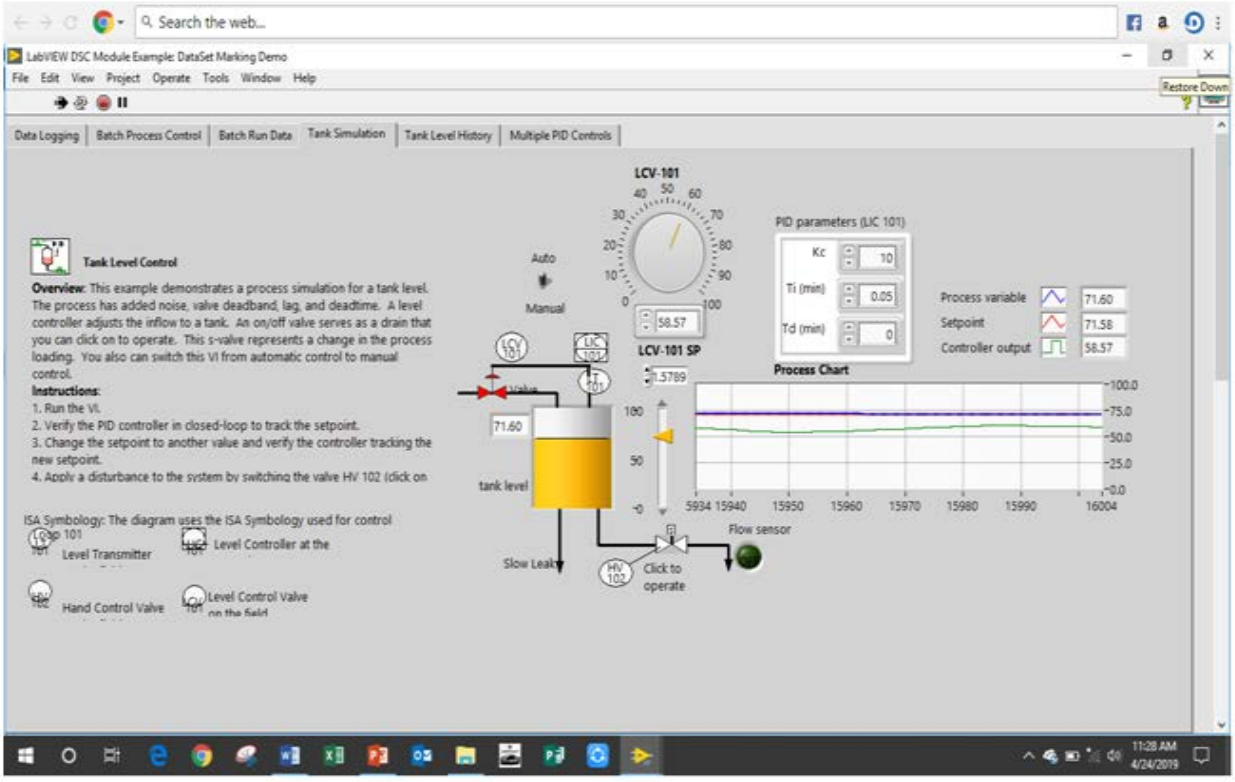
Step 9: To read the data logged in the data base press query historical data

Step 10: stop VI and click stop run button

II. DATA PROCESS CONTROL



III. BATCH RUN DATA



Received: 09 Apr 2019 | Revised: 08 May 2019 | Accepted: 07 June 2019

IV. CONCLUSION

In this we designed the paint manufacturing process. Which is used to run the batch process control and gives the batch run data which has been recorded the data in the query historical data base with the batch id which we given and it used for the future reference for any queries it will go to the previously recorded. data with the particular batch we given and it will check the data.

ACKNOWLEDGEMENT

We would like to thank management and mentors of CEDSE Bharath Institute of Higher Education and Research, Chennai as continuous supporters to bring effective output in my research work. And I also submit my thanks to the members of Research and Development and external mentors of CEDSE excellence centre Bharath Institute of Higher Education and Research, Chennai

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Received: 09 Apr 2019 | Revised: 08 May 2019 | Accepted: 07 June 2019