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Supervision project for Chicapa hydro plant, for educational purposes, using Citect SCADA 2016

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This work shows a SCADA (supervisory control and data acquisition) project for educational purposes, using the SCADA Citect software in the 2016 version. Several sections of the process of the Chicapa 1 hydroelectric power plant are included, as well as the configuration of graphic screens, variables, measurements and regulation loops, events, alarms, historical records, communication with different input and output devices, as well as examples of programing functions for making reports and other calculations that are made using the internal functions of the SCADA Citect software. In addition, it includes some functions for the calculation of working time of technological equipment and monthly elaboration of a file for data exporting, which is a very useful functionality in the industries for the accomplishment of the programmed periodic maintenance. All of this gives a considerable saving of time in learning of both process operation and automation of hydroelectric central by students. Besides, it allows the rapid development of projects using the configuration platform of Citect SCADA 2016, new version with functionality enhancements and innovations.

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