8.- AqquaScan®, SCADA application for WWTP

Title and name of product or technology
AqquaScan®
Abstract
AqquaScan® is an S.C.A.D.A. application oriented to the exploitation of Waste Water Treatment Plants (WWTP). It is a newly way of controlling and monitoring the WWTP via internet. The main distinctive characteristics from any other monitoring system is its capacity of estimation relevant operational indicators of the WWTP online, as they are the Oxygen Uptake Rate, the oxygen transfer coefficient and the efficiency of the oxygenation system.
Description including main features/advantages
AqquaScan® is a web based application with the following main purposes: ▪ Supervision: the general state of the WWTP can be checked whenever, both the historical data and the current data of the plant. ▪ Control: the WWTP operational conditions can be modified changing the set point values. ▪ Analytical data: the system is ready for the insertion and consulting of the laboratory measured data ▪ Notification: the system alerts of the WWTP events, either via internet, by e-mail or by sms in a mobile. ▪ Online estimation of relevant information of the WWTP state, as the OUR, oxygen transfer rate and oxygen transfer efficiency.
Innovative aspects
Many features of AqquaScan® are innovative, but two can be highlighted: ▪ The estimation of the WWTP indicators, OUR, Kla and OTE ▪ The flexibility of this monitoring system to be adapted to the plant configuration and the client needs. Estimation and monitoring of other required plant variables.
Current and potential industrial users/domains of application
Currently, AqquaScan® can be applied to any WWTP, although the estimation of the parameters can be applied to WWTP with pure oxygen. In the near future, this OUR estimation will be available also for aerated WWTP.
Current state of development
AqquaScan® is currently working as described above, but it is in continuous development including new features required by the clients.

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