A number of corrosion issues with regard to wastewater treatment plants

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ABSTRACT

In order to protect the environment and public health of the communities, every city around the world, including Turkey, faces the problem of dealing with wastewater, and this is primarily dealt with by means of the services provided by the wastewater treatment plants. Wastewater is usually removed by the wastewater treatment system and sometimes by the non-sublimation process. The wastewater treatment plants can be carefully constructed and designed to prevent plants corrosion problems. It is very important to achieve high efficiency for the wastewater treatment centres. To this aim, construction of Supervisory Control and Data Acquisition (SCADA) system would help the treatment plants to be more efficient and work in a more economic way. The SCADA system is a combination of control panel and power of command components. This system entails water management and the efficiency of all systems as well as the corrosion control. When the wastewater transfer centres are examined, it can be easily observed that there are many corrosion effects in these centres. To deal with this aspect, in this study we show how the biological mass kinetic values affect the corrosion problems in wastewater treatment systems.

Keywords: Wastewater transfer centre; Corrosion; SCADA system; Wastewater treatment system; Prevention from corrosion

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