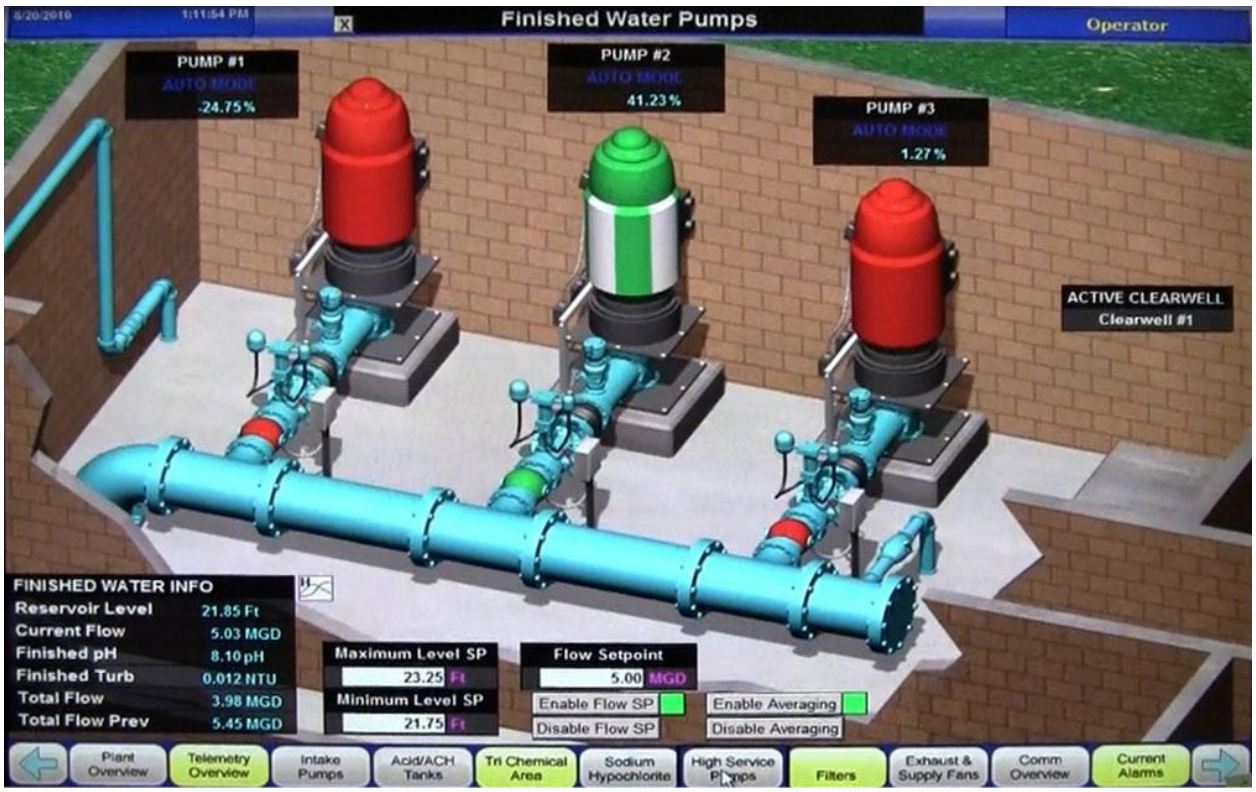

AUTOMATED Water/Fluid Tank Monitoring System

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Executive Summary

This project aims to aid in both consumer and vast industrial water/fluid tanks management or in times of human resource scarcity by reducing the need of human intervention.

Objectives

1. Cut down on employment cost
2. Reduction of management cost
3. Increase management efficiency/accuracy through automation

Features

This project will boast numerous features in managing fluid/water tanks both at consumer and industrial level.

Fluid level detection and control

An automated water level management system which will be assigned to adjusting water level in tanks.

Temperature detection and control

A sensor will detect and regulate temperature of fluid in tanks.

Flow/turbulence control

Pumps will regulate flow of fluid in and out of tanks.

pH sensor

In water tanks, pH sensors will detect pH levels and warn of any intolerance level reach.

Organic contaminant detection

A sensor(methane gas) will monitor organic contamination in tanks.

Expected Impact

I. Industries

1. Increased production rate
2. Management cost reduction
3. Employment cost reduction

II. Consumers

1. Ease of use
2. Ensuring of consumption safety