

From: [Mark Southard](#)
To: [Marlo Berg](#)
Cc: [Jack Schulze](#); [Joel Klumpp](#); [Alicia Diehl](#); [Noble Johnson](#); [Vera Poe](#)
Subject: Re: 1 minute data
Date: Wednesday, May 28, 2014 4:14:34 PM
Attachments: [MF Turbidity Alarms.pdf](#)

Marlo,

The data that is recorded is not tied to the alarm/shutdowns. It is simply a snapshot of the data at each time period and is recorded by a software package Lookout into a csv file. The short explanation is that at each time period, 5 minute for example with turbidity, Lookout sees the turbidity reading on SCADA for each of the turbidimeters and places those values into a csv file.

The turbidity shutdown takes place in SCADA through Allen Bradley logic, but does not look at the csv records. Sort of like Lookout though, at the time period, again 5 minute in this case, it looks at the turbidity reading on SCADA and based on the logic in the shutdown program, either tags it as a high reading or does nothing for low readings.

I have attached a couple of screen shots with a little more explanation of how the program works.

The 1 minute data would probably help more on the trough level shut off of the cells than the turbidity alarm/shutdown.

On Wed, May 28, 2014 at 12:18 PM, Marlo Berg <Marlo.Berg@tceq.texas.gov> wrote:

Mark,

I am interested in the on/off issues described below, but Jennelle explained the trough issues and I get it. What I am more interested in is verifying how the shut down for 2 readings over 0.1 works now. Since I cannot read the SCADA logic, I was hoping if I looked at 1 minute data, I can understand the program.

Thank you,

Marlo

From: Mark Southard [mailto:mark.southard@wichitafallstx.gov]
Sent: Wednesday, May 28, 2014 11:53 AM
To: Marlo Berg
Cc: Jack Schulze; Joel Klumpp; Alicia Diehl; Noble Johnson; Vera Poe
Subject: Re: 1 minute data

Marlo,

I can send you what you are looking for, I am assuming you are looking to see why cells are going into standby at times instead of continuously running for 30 minutes at a time. However, the most frequent reasons that cells go into standby is due to the microfiltration trough level getting low (less than 2.8 ft) or the break tank level getting too high (at 23 ft or more) and that data is not recorded in SCADA. The cell state (filtration, standby, shutdown, backwash, etc.) is shown, but there is no alarm tag to go along with the cell state to explain why the filter is in that state.

On Wed, May 28, 2014 at 10:21 AM, Marlo Berg <Marlo.Berg@tceq.texas.gov> wrote:

Mark,

I tried really hard to understand the SCADA logic, but without a listing of all the nodes and codes, I am lost. So, instead could you send me the 1 minute turbidity data for 1 day? Something like you sent before where it has the flow and the turbidity for at least 1 cell. If that table has the alarms on it, that would be even better, but if all I get is turbidity and flow that is good.

Thank you,

Marlo

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