Let your SCADA System do the Reporting for you

**Automated Regulatory Reporting**

**Process and Data Automation Inc.**
(814)866-9600

**Presenter:** Jeremy Anderson, Project Manager & Sales Engineer
Let your SCADA System do Reporting for you
Design Considerations

What Data do you need to collect?

Where are you collecting data from?

Who will be using the data?

How long do you need to keep the data for?

Other Key Considerations
• Overall Cost
• Future Expansion
• Security of Data
• Redundancy
Chapter 109 of the safe drinking act is the ruling document. It Specifies:

- Filter Plants
- Well Systems and Rechlorination Points
- General Systems
- Reporting Standards
  - Frequency of records to be taken for chemicals, filters, etc.
- Up and Coming Rules/Programs
  - LT2
  - Distribution Optimization
  - Secondary Contamination due to aging infrastructure
Data System Methods

**Hand Jam**

<table>
<thead>
<tr>
<th>Pros</th>
<th>Cons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Cost</td>
<td>Resource Reliability</td>
</tr>
<tr>
<td></td>
<td>Shared Resources</td>
</tr>
</tbody>
</table>
## Data System Methods

### Local Chart Recorder/ OIT

<table>
<thead>
<tr>
<th>Pros</th>
<th>Cons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reliable Data</td>
<td>Failure of Instruments</td>
</tr>
<tr>
<td>Removes Testing, Just Recording</td>
<td>Limited Trending</td>
</tr>
<tr>
<td></td>
<td>No Digital Query</td>
</tr>
</tbody>
</table>
## Data System Methods

### SCADA/HMI Computer

<table>
<thead>
<tr>
<th>Pros</th>
<th>Cons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eliminates Human testing and recording</td>
<td>Data Query by file naming structure</td>
</tr>
<tr>
<td>Utilizes Print Screens as Reporting</td>
<td>Data is not Dynamic</td>
</tr>
<tr>
<td></td>
<td>Instrument Failure</td>
</tr>
<tr>
<td></td>
<td>Raw Data can be .CSV and not secured from editing</td>
</tr>
</tbody>
</table>
## Data System Methods

### Web-based Application

<table>
<thead>
<tr>
<th>Pros</th>
<th>Cons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database</td>
<td>Higher Cost</td>
</tr>
<tr>
<td>Dynamic Reporting</td>
<td>Changing and Expanding the App is best by creator.</td>
</tr>
<tr>
<td>Friendly with Digital Based Hand Jamming</td>
<td></td>
</tr>
<tr>
<td>Developed to work with existing Hardware Platforms</td>
<td></td>
</tr>
<tr>
<td>Configured for end-user</td>
<td></td>
</tr>
</tbody>
</table>
Data System Methods

Historical Trending Software

GE Intelligent Platforms

ICONICS

Rockwell Automation

Wonderware

Citect SCADA

OSIsoft
Important Information & Resources

- **DEP Regulations and Resources**
  - Chapter 109 of the PA Code ‘Safe Water Drinking Act’
  - Sample Collection & Data Management (Data Integrity)

- **Tips to Implementation of a SCADA System**
  - Find a trusted Partner to work with you through the entire migration phase
  - All raw data must be secured from public editing
  - Understand your needs and the value of having a reporting system.

Visit Booth #xx for our extended Information & Resources Hand-out
Questions?

Thank you for attending our presentation!

Visit us at Booth #43

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