**Meeting 2 Elevate OLD ATP Test Automation Monday, January 15, 2024 | 1:30pm**

Attendees:

Rick Ales, Rob Hyde, Tom Waples, Michele Reeder, Travis Cottrell

Summary:

* There are numerous production tests that could be automated with LabVIEW. This would be layed out in the project road map. We decided to address our immediate needs of the road map as four sprints:

1. Using the DAQ970 with Benchvue SW to automate the existing ATP data acquisition
   * Two channels of 4-wire resistance to measure sensor ChA & ChB
   * One channel of Vdc to measure the Keyence Laser sensor analog output.
   * Data to be captured in a CSV/Excel file.
2. Build a second tank and ATP tester and migrate the automation to LabVIEW. Discussed Budget
   * A second DAQ970
   * A PC work station – no need to be industrial grade
   * Pump control hardware, 2-channel USB DO relay module and programmable DC power supply.
   * Second Laser sensor –that this just be a second head using the current controller?
3. Data analysis (less well defined)
   * Software to analyze the raw resistor and level data. Is this done in LabVIEW or VBA?
4. Repurpose the existing OLS ATP tester to replace other product specific level rigs
   * Need to develop a migration strategy

* Beginning at sprint 2, use Agile project management.
  + User stories, and use cases for features collected in Backlog
  + Kanban board with phases Requirements Definition, Design, Develop, Test, Release.
  + Implement Kanban phase review sign-off checklist
  + LabVIEW programming will follow style guidelines suggested by National Instruments. [Rules to Wire By -- Part I - NI](https://www.ni.com/en/support/documentation/supplemental/06/rules-to-wire-by----part-i.html) -- is Doxygen an option for LabVIEW?
  + Use a repository for Version control like GIT – perhaps LabVIEW needs special version control treatment? [Managing LabVIEW VI and Application Revision History - NI](https://www.ni.com/en/support/documentation/supplemental/21/managing-labview-vi-and-application-revision-history.html)
* Travis is a Software developer resource.

Action Items:

* Rick & Tom get Sprint #1 done ASAP to support ongoing 8D ATP testing.
* Rob, Rick, Michele & Tom develop budget for Sprint #2, request PO.
* Travis & Michele define the software style guide and version control system
* Rick, Travis & Michele develop phase review check-sheets.

By Rick Ales

cc: misc: \PWC 8D Elevate OLS\OLS Level Test Project\\_Project Management\Minutes