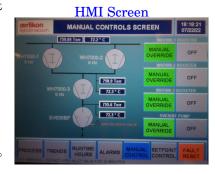
Logging of *P* & *T* of Roots Pump

- Remote access to roots-pump PLC (not HMI) via Ethernet
 - Past trial by ACU group— DocDB #6067
 - $^{\triangleright}$ The sample code ran fine with one correction ("cpu=PLC5" \rightarrow "cpu=SLC")
- ► C++ program on Linux server
 - ▶ Read *P* & *T* every 5 sec for example
 - ▶ Write them into TSV files under /data2/e1039_data/target_data/roots_pump
 - ▶ Will write into MySQL DB also??



Viewer

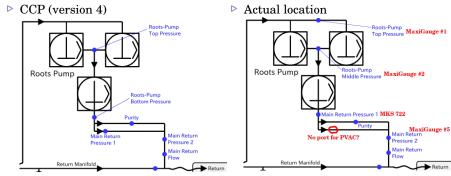
▶ Chart them at E1039 Data Summary as usual:

https://e906-gatl.fnal.gov/data-summary/e1039/target-roots-pump.php

https://e906-gatl.fnal.gov/data-summary/e1039/target-roots-pump.php?var_type=t

Locations of Sensors around Roots Pump

- ► The schematic in Cryo Control Panel is based on the P&ID drawing (DocDB 5834-v84)
- ▶ The actual location of several sensors is different



- Plans
 - ▷ Use APR250 for both the magnet & separator return lines, where P is 10^{-2} -1000 Torr. So purchase one more APR250
 - hd Purchase a new sensor for "Main Return Pressure 2", where P is 3-15 psi.

