DSG Moller

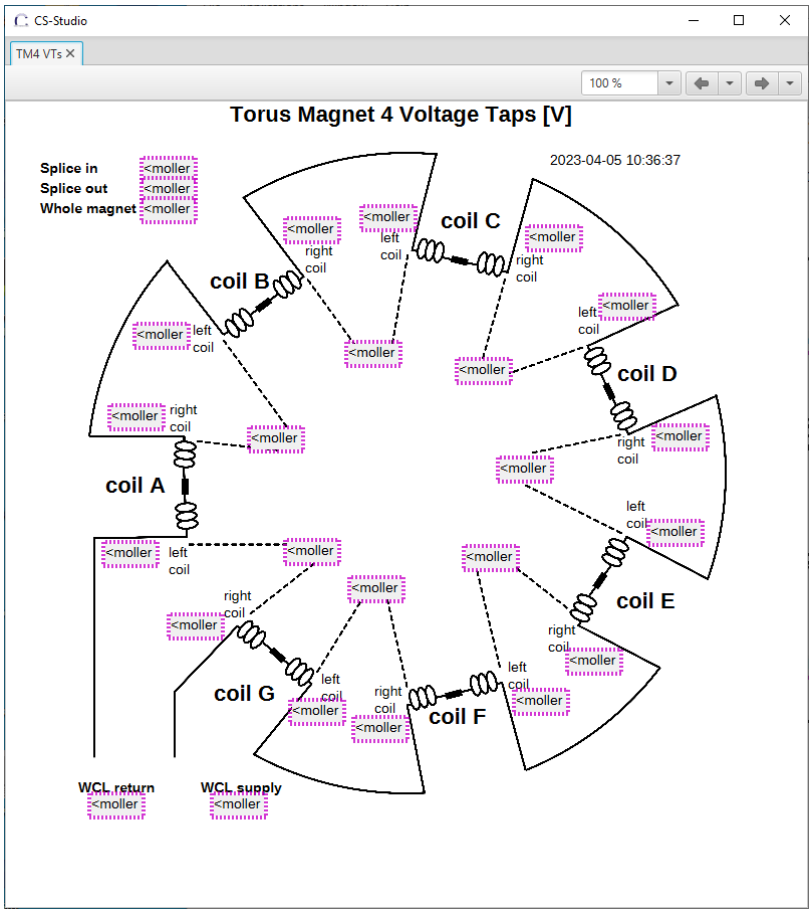
Date: 04/05/2023
Time: 11:00 – 12:00

Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, Kaiyi Hall, Tyler Lemon, Marc McMullen

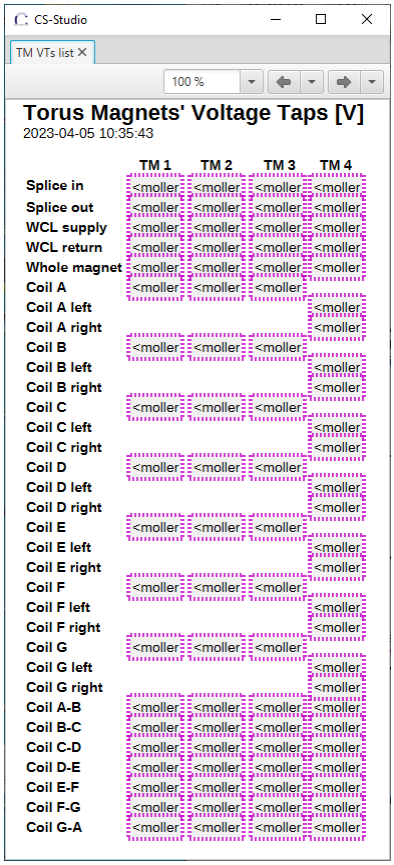
1. Phoebus Screens

Mary Ann Antonioli, Brian Eng

1. Completed temperature screens based on P&ID for magnets 1–4
2. Completed voltage taps screens based on P&ID for magnets 1–4; magnet 4 shown as example



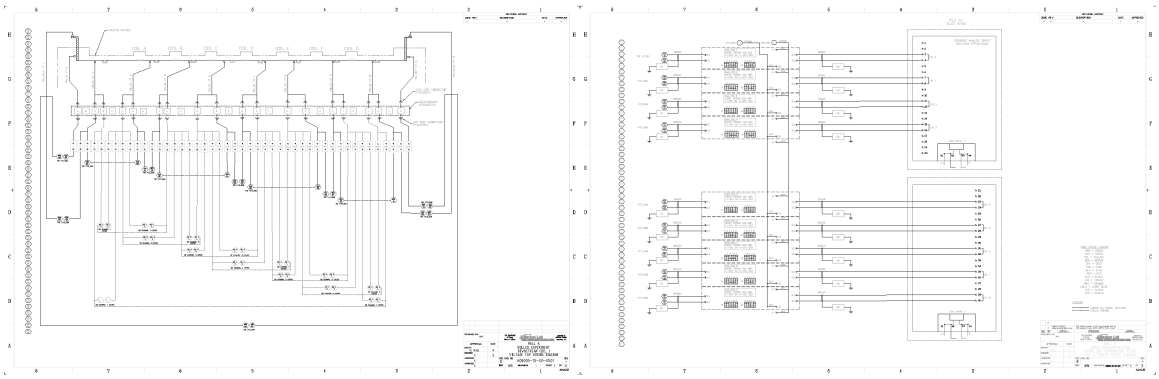
3. Created overview voltage screen



2. VT Wiring Diagram

Kaiyi Hall, Brian Eng

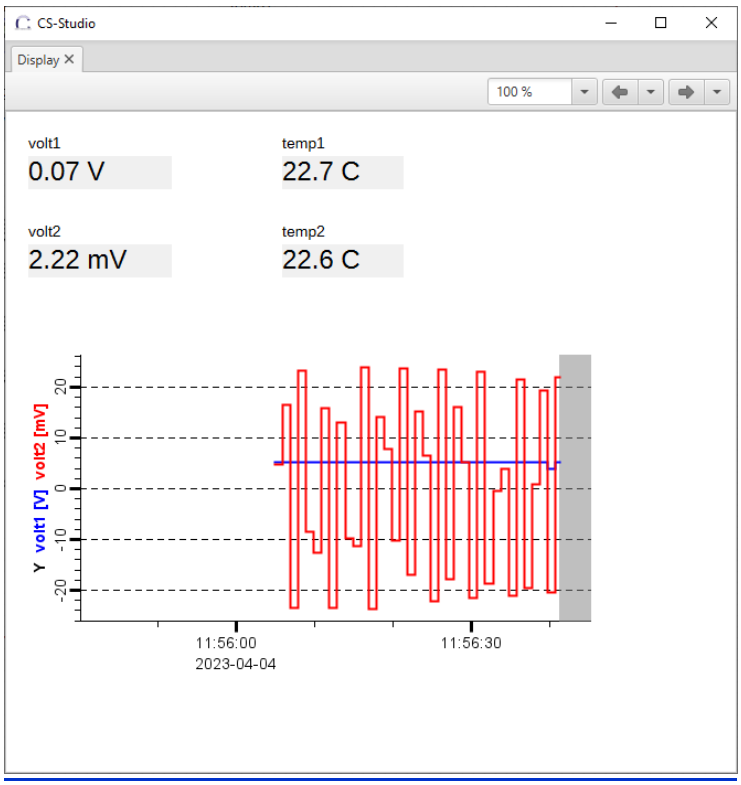
1. Completed first draft of voltage tap wiring diagram



3. Siemens PLC

Brian Eng

1. Created test IOC to communicate with Siemens PLC using s7nodave driver
    - Made test Phoebus screen to view the process variables (PVs)



    - PV update rate not same as what is set in database, e.g. set to 100 ms, PV updates not at same rate

```
beng@DSG-WIN-EEL231: ~
beng@DSG-WIN-EEL231:~$ /opt/epics/bin/linux-x86_64/camonitor ai_1_ch3
ai_1_ch3                       2023-04-05 10:53:55.297439 -1095
ai_1_ch3                       2023-04-05 10:53:55.484410 -10289
ai_1_ch3                       2023-04-05 10:53:55.669066 -12907
ai_1_ch3                       2023-04-05 10:53:55.853125 -7296
ai_1_ch3                       2023-04-05 10:53:56.132065 2990
ai_1_ch3                       2023-04-05 10:53:56.316744 11471
ai_1_ch3                       2023-04-05 10:53:56.500548 12788
ai_1_ch3                       2023-04-05 10:53:56.686328 6104
ai_1_ch3                       2023-04-05 10:53:56.963243 -4351
ai_1_ch3                       2023-04-05 10:53:57.148349 -11988
ai_1_ch3                       2023-04-05 10:53:57.332943 -11978
ai_1_ch3                       2023-04-05 10:53:57.610086 -4330
ai_1_ch3                       2023-04-05 10:53:57.795102 6126
ai_1_ch3                       2023-04-05 10:53:57.979635 12792
ai_1_ch3                       2023-04-05 10:53:58.258429 11458
ai_1_ch3                       2023-04-05 10:53:58.442143 2966
ai_1_ch3                       2023-04-05 10:53:58.628148 -7320
ai_1_ch3                       2023-04-05 10:53:58.812619 -12915
ai_1_ch3                       2023-04-05 10:53:59.090802 -10275
ai_1_ch3                       2023-04-05 10:53:59.275507 -1073
ai_1_ch3                       2023-04-05 10:53:59.459325 8878
ai_1_ch3                       2023-04-05 10:53:59.736826 13302
ai_1_ch3                       2023-04-05 10:53:59.921957 9406
ai_1_ch3                       2023-04-05 10:54:00.107469 -353
ai_1_ch3                       2023-04-05 10:54:00.384252 -9812
ai_1_ch3                       2023-04-05 10:54:00.569346 -13004
ai_1_ch3                       2023-04-05 10:54:00.754101 -7904
^C
beng@DSG-WIN-EEL231:~$
```

- Enabled a setting under protections in order for IOC to communicate with PLC; need to check with Siemens about possible security implications
  - The checkbox under Connection mechanisms was disabled by default
  - The access levels are unchanged from how controller was received