

DSG-R&D Phoebus Meeting Minutes

Date: March 31, 2023

Time: 02:00PM – 02:30PM

Attendees: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, Tyler Lemon, and Marc McMullen

1. Phoebus screen development for alarm system

Mary Ann Antonioli, Peter Bonneau, and Aaron Brown

1. Reviewed status of development
 - Mary Ann is replacing array-based screens with screens with individual PVs for NPS; new screens will also need to be made for the alarm system screens
 - The NPS softIOC will be used for screen testing

2. Signal/PV list

Mary Ann Antonioli and Aaron Brown

1. Mary Ann is updating spreadsheet with individual PVs, as opposed to array PVs
2. Total number of NPS PVs so far is 2149
 - Total of NPS alarm PVs will be 1009 (read access type)
 - Any PV listed as having read access will have EPICS alarm limits
 - Number of NPS simulation alarm control PVs will be 1985
3. Will need to add “intlk” to all interlock PVs to distinguish between EPICS and interlock limits/alarms

3. CS-Studio Phoebus and support programs update

Peter Bonneau

1. Phoebus V4.7.1 update in progress
 - Communication between alarm system applications and user interface for PV alarm settings is not working correctly
 - Kafka 2.13-3.2.0 alarm message stream error
 - Discovered that configuration file formats for alarm application preferences has changed. New options and settings are also available

4. Alarm system softIOC development

Peter Bonneau and Aaron Brown

1. Aaron is designing an alarm test system softIOC using a Python script to provide random values; softIOC will include
 - Simulated detector signals
 - Simulation and real-time data modes
 - Group signal types for limits
 - Can be used for testing with detector (offline hardware debugging)