

DSG-R&D Phoebus Alarm System Meeting Minutes

Date: February 15, 2023

Time: 02:00PM – 02:30PM

Attendees: Mary Ann Antonioli, Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Mindy Leffel, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

1. Testing Phoebus v4.6.10 applications after system rebuild

Peter Bonneau

1. Discussed testing automatic start and sequencing of alarm core programs on system boot
 - The core programs – Kafka Zookeeper, Kafka Server, and the Phoebus alarm server – were all correctly sequenced and running
2. Discussed testing process variable (PV) channel access connections to Phoebus applications via test softIOC
 - Phoebus display and PV list applications successfully connected to test softIOC PVs, which means that channel access is working for these applications
3. Discussed testing Phoebus alarm server using four PVs provided by test softIOC
 - Verified monitoring of PVs
 - Verified latching of PV value and timestamp upon an alarm condition
 - Verified readback values for alarm severity
 - Verified PV alarms on HIHI, HIGH, LOW, LOLO conditions
 - Verified alarm acknowledgement
 - Verified the storage of PV alarm configuration settings
4. The program is working as it did before the failure; next step is to expand the test program and verify that the alarm system can handle all NPS PVs

2. Alarm system softIOC development

Peter Bonneau and Aaron Brown

1. Discussed new softIOC needed for next stage of alarm system development and testing; to be developed by Aaron
2. Discussed implementation methods

3. Phoebus screen development for alarm system

Mary Ann Antonioli, Peter Bonneau, and Aaron Brown

1. Discussed control and monitoring screens needed for alarm system