DSG-R&D Phoebus Alarm System Meeting Minutes

Date: March 31, 2022
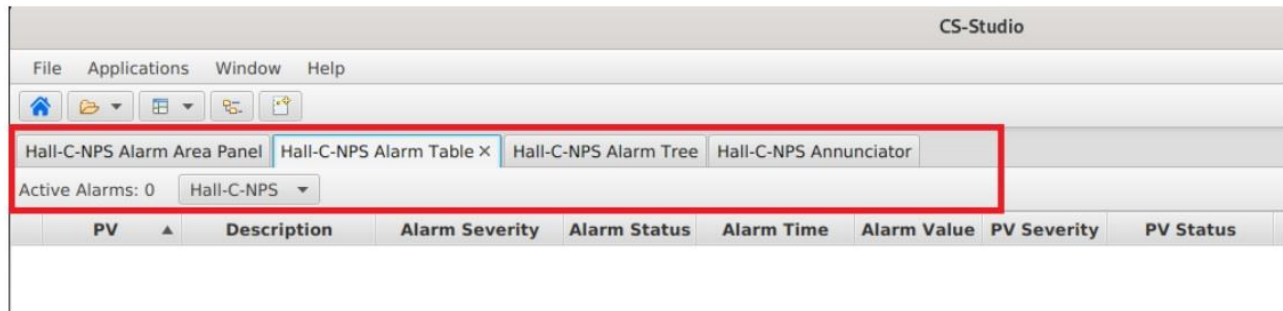**Time: 11:00PM – 12:00PM**

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

1. **CS-Studio Phoebus**
   Peter Bonneau
   1. Development of a site-specific Phoebus product for Hall C NPS
      - Wrote an alarm system preference properties file in the Phoebus source code to define the alarm configuration name, default values, and user interface settings
        – Alarm configuration names cannot have space or underscores
      - Recompiled the entire Phoebus product to implement changes

Custom Phoebus alarm system user interface for Hall C NPS

2. **EPICS alarm system based on CS-Studio Phoebus**
   Peter Bonneau
   1. Wrote configuration scripts to create Kafka streams specific to Hall C NPS
      - Prior to initial alarm system start-up, names and operating parameters of the Kafka message streams must be defined
      - Successfully created and tested NPS alarm system message streams using Kafka and the configuration scripts
   2. Development of a Kafka message stream spy program that will independently monitor or write to a specific Kafka message stream; will be used for debugging the alarm system
      - The spy program can now successfully monitor the Kafka configuration message stream for the Hall C NPS alarm system
        – The configuration stream is used by the alarm server to set alarm parameters for specific PVs