

DSG-EIC DIRC Meeting

Date: October 31, 2022

Time: 11:00 AM – 12:00 PM

Attendees: Aaron Brown, Imani Burton, Brian Eng, Greg Kalicy, Tyler Lemon, Marc McMullen, Joe Schwiening, Jennifer Williams, and Beni Zihlmann

1. Three modes of laser operation will be used for test area

Greg Kalicy

1. Initial alignment
 - Low power beam with personnel in room
 - Used to perform preliminary alignment of optical components for test area
2. Expert, manual DAQ
 - Full power beam with personnel in room
 - Used for first series of data acquisitions to ensure systems are properly aligned and working as expected
 - Only one or two trained experts will be able to operate system in this mode
3. Automated DAQ
 - Full power beam with fully remote operation (room is vacant)
 - Used once system is fully set up
 - Used for majority of tests

2. Discussed operations procedure for enabling in-room laser use

All

1. One user key to control whether laser can be operated from inside or outside of laser room
 - If key is inside room, laser can only be operated from inside and in low power mode, unless expert key is present inside room at control unit
 - If key is outside room, laser can only be operated from outside room
2. Once user key is removed from inside room, user will have a set amount of time (to be determined) to exit room and install key into outside control unit
3. Expert key allows removal of low power filter when in low power mode
 - Expert key will be stored in key watcher system in EEL hallway (outside of EEL 108)

3. PPE needed to mitigate hazards of Hastilite polishing compound used for cleaning bars

Imani Burton and Jennifer Williams

1. Neoprene gloves
2. Safety glasses
3. Dispensing container
 - Smaller container to avoid having to pour compound from its large container for use
4. Specified disposal container (to be provided by ES&H)
5. Cut-resistant gloves
 - Edges of bars are manufactured to be as close to 90° as possible, making their edges very sharp
 - Cut-resistant gloves will be layered with neoprene gloves

4. Items to begin procuring

Greg Kalicy, Tyler Lemon, Marc McMullen, and Beni Zihlmann

1. Interlock system components
 - Beacon
 - Key switches
 - Emergency stop buttons
 - Magnetic door locks
 - Timer relays
2. PPE for Hastelite
3. Tyler Lemon will send price list to Beni Zihlmann and Greg Kalicy before submitting PR

5. Next meeting will be Monday, November 14