

DSG – EIC DIRC Meeting

Date: February 19, 2024

Time: 1:30 PM – 2:00 PM

Attendees: Peter Bonneau, Imani Burton, Brian Eng, George Jacobs, Greg Kalicy, Tyler Lemon, Andrew Lumanog, and Marc McMullen

1. Barbox shipping crates

1. Eric Sun named pressure system design authority (DA) for shipping crate air-suspension system
 - Eric is reviewing design and checking pressure ratings of materials selected
 - Test procedure being generated by DA for certifying system to ~33 psi (expected pressure 30 psi + 30%)
 - Tubing used may have to be replaced since it does not appear to have appropriate markings indicating its pressure rating and specifications
2. Andrew Lumanog submitted a PR for two Milwaukee, 18-V, battery-powered compressors and two 12-Ah batteries
 - One compressor and one battery already on hand and can be used for pressure tests
3. After leak checks, a test will be performed over several days to determine the power consumption of a compressor
4. A shock test—moving a crate and recording internal shock response—will be performed before crates are shipped to SLAC
 - Shock response will be monitored by 10 USB accelerometers
 - Tyler Lemon is working on program to read accelerometer logs and display data for analysis

2. Laser lab update

1. Laser interlock system
 - Tyler Lemon completed benchtop testing
 - Expect to receive cabling for connecting laser interlock control units on February 20, 2024
2. Portafab (company that manufactured the room structure) recommends using the room's vertical metal studs to fasten cableway and interlock enclosure to the walls of the laser lab