Pressure and Cryogenic Safety Subcommittee

MINUTES OF MEETING 17-11
December 15, 2017

Committee Members Present
N. Bernholc
R. Colichio
M. Cubillo
M. Gaffney
L. Hammons
E. Lessard
D. Mallon [1]
Y. Than
J. Tuozzolo

[1] Non-voting

Committee Members Absent
D. Coburn
G. McIntyre
Q. Wu

Guests:
M. Anerella
W. McKeon
A. Marone
M. Samms
P. Wanderer

Agenda: Short Term Plan for Vertical Testing of the LARP Magnet in Building 902

Edward T Lessard 12-28-17
E. Lessard **Date**
LESHC Chairperson

1-2-18
G. Mattson **Date**
ESH ALD

Chair E. Lessard called the meeting of the Pressure and Cryogenic Safety Subcommittee (PCSS) to order on December 5, 2017 at 1:35 pm.

1. The goal of the meeting was to review the short-term plan for vertical testing of the LARP magnet in Building 902.
2. The following discussions were held.
   - 2.1. A. Marone gave an overview of the plan.
   - 2.2. A member questioned the capacity of the second tank (Dewar 3) and the response was 2.2 cubic meters.
   - 2.3. It was noted the maximum flow was 500 g/s for the current quench recovery line.
   - 2.4. It was noted a validated control system must be created and tested. This is an action item.
   - 2.5. It was noted the vent stack might need additional support.
   - 2.6. There was discussion of how the area near the equipment is cleared of personnel during the test since there may be hazards, including a startle hazard. A written procedure must be developed. This is an action item.
   - 2.7. There was discussion of whether the transfer line might need additional support. This should be analyzed. This is an action item.
   - 2.8. There was discussion regarding how many quenches the temporary stack system could accommodate. It was agreed the temporary stack system would be limited to two magnets. This is an action item.

3. Two motions were made by M. Cubillo:
   - 3.1. The committee recommends approval of the redesigned relief stack assembly required for testing the magnet based on:
     - 3.1.1. A modified control system for the relief system;
     - 3.1.2. The control system must be tested;
     - 3.1.3. The supports for the relief stack must be analyzed and fixed if necessary;
     - 3.1.4. There must be a written procedure to control the area during the test and keep people out;
     - 3.1.5. The temporary relief stack must only be used by 2 magnets.
     - 3.1.6. A walkthrough by the PCSS prior to operation.
   - 3.2. The committee recommends approval of the use of the second test Dewar as a cold Helium buffer volume based on:
     - 3.2.1. The support for the transfer line must be analyzed and fixed if necessary;
     - 3.2.2. A new LESHC review and approval will be required when the system is modified for production.
   - 3.3. The motions were seconded by L. Hammons and both motions passed.

4. The meeting adjourned at 2:50 pm.