

## **SBN Independent Assessments of WA104 Activities, Near and Far Detector Cryogenics, and SBND Cryostat**

### **Oct 13 Near and Far Detector Cryogenics**

#### **10:30-12:00 Tours of Cryogenic activities**

- Filter media test
- WA104 cryogenic component testing
- WA105-182 cryostat (example of membrane cryostat construction)
- Other?

#### **12:00-13:30 Lunch**

#### **13:30-18:00 Cryogenics Assessment (RM-222-R-003 w/Vidyo Connection)**

##### **Cryogenics Assessment Presentations:**

1. Lessons from T600 at LNGS (20 min) - Claudio Montanari
2. Lessons from MicroBooNE and 35 ton prototype (20 min) – Mike Zuckerbrot
3. Requirements for SBN cryogenics (20 min) - ?
4. Cryogenics plan for T600 at SBN: P&ID and deliverables (60 min) – Mike Geynisman/Johan Bremer
5. Coffee (15 min)
6. Cryogenics plan for SBND: P&ID and deliverables (60 min) – Mike Geynisman/Johan Bremer
7. Discussion (60 min)

### **Oct 14 Cryogenics and Cryostats**

#### **9:00-12:00 Working meeting: planning cryogenics activities (RM-42-3-002)**

- Fermilab Cryogenics Systems Review Process (30m) – Mike Geynisman
- Sign-off on Work Package Agreements
- Sign-off on P&IDs
- Common schedule between Fermilab and CERN
- Transportation logistics
- Installation planning
- Other topics

#### **12:00-13:30 Lunch**

#### **13:30-18:00 Cryostat Assessment (RM-42-3-002 w/Vidyo Connection)**

1. T600 cryostat requirements (10 min) – Claudio Montanari
2. T600 cold cryostats fabrication and assembly (30 min) – Marzio Nessi
3. T600 warm cryostat design and fabrication (30 min) – Marzio Nessi
4. Coffee Break
5. SBND cryostat requirements (10 min)– David Montanari
6. SBND membrane cryostat: preliminary design, procurement, installation plan (30 min)– Marzio Nessi
7. SBND cryostat support structure design, fabrication, installation plan (30 min) – Dimitar Mladenov
8. Discussion (60 min)

#### **19:00 Dinner with all participants invited**

## **Oct 15 WA104 Activities**

### **8:30-10:30 Tour of WA104 activities**

- T300 in clean room and adjacent work space
- PMT testing and preparation facilities
- Other?

### **10:30-12:00 T600 Integration at Fermilab**

1. Intro to Fermilab procedures for experimenters (30 min) – Cat James
2. Detector/building grounding plan – Linda Bagby and Claudio Montanari
3. Installation planning

12:00-13:30 Lunch

### **13:30-18:00 WA104 Activity Assessment (222-R-001 Filtration Plant w/Vidyo)**

1. Overview of WA104 activities (60 min) – Claudio Montanari
2. PMT procurement, testing, mounting and cabling; PMT electronics requirements (45 min) – Gianluca Raselli
3. Coffee break
4. TPC Electronics system, design, fabrication and install needs (60 min) – Sandro Centro
5. Discussion (60min)

## **Oct 16 Working Meetings**

### **8:30-12:00 Systems in Planning Stage**

1. Cosmic Ray Tagger and Detector Overburden
2. PMT Readout Electronics
3. Data Acquisition
4. Discussion

12:00-13:30 Lunch

13:30-18:00 Open time