

**LBNF/DUNE FS Interface  
Meeting Dec 2017**

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Chamber 1 initial occupancy scenario

*Monday, 18 December 2017 08:00 (2 hours)*

- dimensions including tolerances, details of the finishing of the walls and floor, doors
- what will be inside chamber (utilities), installed by CF (permanent and temporary utilities: lighting, ventilation, fire detection, fire protection, power distribution, grounding network, evacuation system alarm, phone and wifi ...?)
- which of these items still need better requirements? →action
- what access is available from below? How? - Which emergency services/support we can count on during this phase (emergency, lights and electricity, ventilation, lifts, cranes, access, ...)

**Presenter:** Mr LUNDIN, Tracy (Fermilab)

Contribution ID: 1

Type: **not specified**

## **Chamber 1 cranes and lifts: fresh look, rethinking the monorails**

*Monday, 18 December 2017 10:15 (2 hours)*

- what functions do cryostat, cryo systems, and FD need to accomplish with cranes?
- do we need for the duration of the installation of CF infrastructure, cryostat warm, cryostat cold, cryogenics, detector a set of dedicated and movable elevators? Which type? Who will be responsible?
- define an action plan for all of the above

**Presenter:** FOWLER, Jack (Duke University)

Contribution ID: 2

Type: **not specified**

## **SURF surface and underground scenario for storage space**

*Monday, 18 December 2017 13:00 (1h 30m)*

during the construction of the first 2 cryostats and cryogenics and detectors (caverns, drifts, surface building, ...)

**Presenter:** Mr WILLHITE, Joshua (Fermilab)

Contribution ID: 3

Type: **not specified**

## Grounding Issues

*Monday, 18 December 2017 14:30 (2 hours)*

break as needed

**Presenter:** SHAW, Theresa (FNAL)

Contribution ID: 4

Type: **not specified**

## **Scenario of the status of the logistics once cryostat #1 warm structure is constructed**

*Tuesday, 19 December 2017 08:00 (2 hours)*

- Who comes next? Which space we will have underground. How access is possible (bridges, ..)
- First cold cryostat installation requirements in term of space, material lowering, logistics underground, scaffoldings, amount of people
- Second warm structure assembly in parallel? Which additional requirements?
- Which infrastructure should be installed at this moment in preparation of the detector installation in the first chamber?
- Should mezzanine assembly come at this stage? Define responsibilities.

**Presenter:** Prof. NESSI, Marzio (CERN)

Contribution ID: 5

Type: **not specified**

## Logistics and storage

*Tuesday, 19 December 2017 10:15 (2 hours)*

- Cryostat steel lowering and temporary storage (underground) scenario. manipulation tools, shaft tools, draft transport tools. Define responsibilities and requirements → action
- What is underground personnel requirement during cryostat #1 warm structure construction?
- Requirements for assembly & storage space in general off SURF site. Define responsibilities
- Transport and logistic issues between these storage areas and SURF. Define responsibilities
- Transport top of Ross shaft to underground. Define responsibilities

**Presenter:** MLADENOV, Dimitar

Contribution ID: 6

Type: **not specified**

## **Needs for special rooms underground (food, emergency, small workshop, temporary computing,..)**

*Tuesday, 19 December 2017 13:00 (1 hour)*

**Presenter:** FOWLER, Jack (Duke University)



Contribution ID: 7

Type: **not specified**

## **Preparation and requirements for special need from the detector : water cooling, racks space for controls, cables routing between caverns, ....**

*Tuesday, 19 December 2017 14:00 (1 hour)*

**Presenter:** Dr JAMES, Eric (Fermi National Accelerator Lab)

Contribution ID: 8

Type: **not specified**

## **Finalize discussion points for meeting at CERN**

*Tuesday, 19 December 2017 15:00 (30 minutes)*

**Presenter:** MCCLUSKEY, Elaine (Fermilab)