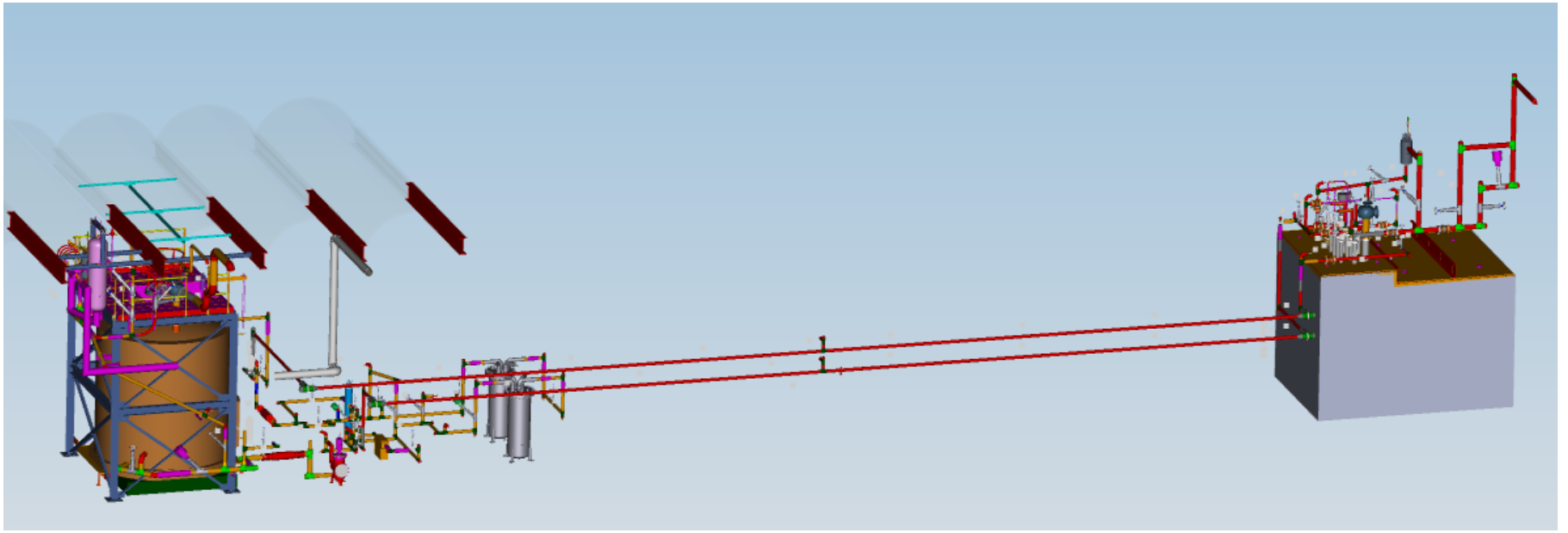
LBNE 35T Labor Needs

PPD Engineering Dept. Head Meeting
2.13.13



Why is the LBNE 35T Schedule Important?

- Schedule achieves purity by June 24th (Phase 1)
- Need to prove the membrane technology for LAr purity requirements
- Already have begun the cryostat vendor selection process for the far detector
- Warm up September 13th
- Begin process for installation of TPC (Phase 2)
- This is ***THE*** test bed for far detector components thus it must move forward (LAr 1 cancelled)

Mechanical Techs

- Current team
  - 3 FTE working in PC4
    - Kubinski, Najdzion, Healey (very appreciative)
    - Installing piping
  - 1 FTE working MAB
    - Sum of MAB techs working on the hatch structure
    - After hatch is done continue at 1 FTE level on “overflow” piping assemblies
  - 0.25 FTE working at PAB
    - Providing He leak checking services for pipe welded at PAB
- Need 4.25 FTE mech tech effort to continue for 4 months
- Operations and preparations for Phase 2 consume 2 FTE for the remainder of CY13

Process Controls

- Dan Markley's group is providing hardware design, PLC programming, HMI pictures, field wiring
- 2 months engineering remain
- 2 months technical work remains
- 2 months field wiring remains
  - Field wiring is the weak link
  - Tim Martin is the only field tech in that group
  - Conflict with MicroBooNE likely for wiring
- Expect 0.25 FTE from this group required after commissioning for remainder of CY13

Drafting

- Currently using 1.5 FTE
- Expect to fluctuate between 1.5 and 2.5 FTE until June
- Likely use 0.5 FTE for remainder of CY13 for Phase 2 development

Engineering

- With LAPD running smoothly, Tope is 3/4 time on the 35T
- Finishing piping construction, commissioning, documenting the phase 1 run, preparing for phase 2 would occupy Tope for the rest of CY13