Meeting Notes and Action Items from Discussions Between DUNE, Cryostat, Cryogenics, FSCF, and SDSTA

October 29 & 30, 2015 T. Lundin

SHORTLIST Last status update: April 4, 2016; Open Items shown in blue font

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| Issue | 4/4/16 Status | Completion Date | Action By |
| Develop process for, and achieve approval of clearance envelope drawing | Open |  | ND |
| Develop requirements for motorized trolley(s) | Open |  | ND |
| Cryostat to design rigging fixtures for exoskeleton beams | Open |  | Dimitar |
| Define interface points and guide mechanisms for conveying loads down the Ross shaft thru the cage and skip compartments | Open |  | MJ |
| Schedule a shaft/cage workshop in Lead for July/August near the time of the ICHEP meeting | Open |  | JCW |
| Arup to provide a horizontally mounted plate on the vertical face of the rock septum for cryostat to attach their flush mounted bridge to cryostat exoskeleton. Cryostat to define plate limits and location | Open |  | Marzio |
| Determine if change control action is necessary re: if two detectors need to be installed before the first detector pit is filled with LAr. | Open |  | EFIG |
| 3D modelling work on version 3 has progressed; however, work has stopped to support design of ProtoDUNE. Work is re-starting week of 3/21/16 | Open |  | Marzio |
| Verify that the schedule allows lessons learned from ProtoDUNE can be incorporated into the design of LBNF cryostat | Open |  | Marzio |
| Provide load and spacing definition for unistruts | Open |  | cryogenics |
| Mezzanine total load currently defined a 120 metric tons (133 US short tons). Cryogenics to provide better definition of loading footprint | Open |  | David M |
| Provide tighter tolerance for the detector pit concrete slab than +/- ¾ inch. Plan to provide OVERALL FF=25 (approximate +/- ¼ inch over 10-ft straightedge) and FL=20 (approximate +/- 5/16-inch) with LOCALIZED FF=17 (approximate +/- 3/8inch) and FL=15 (approximate +/-3/8inch) | Open |  | Doug |
| Study the cryostat materials and tender documents to determine the units to be used for those systems | Open |  | David M |
| Define who supplies the “tugs” for moving cryostat pieces at the 4850L | Open |  | JCW & ND |
| Determine if temporary vertical access to the pit level from 4850L would be left in place by the CF contractors. | Open |  | ND |
| The majority of the work needing a machine shop would be underground; however, cryogenics prefers to keep the flexibility of a machine shop above ground as well. Using the compressor building (surface) would OK as long as there is no damage/alteration to the equipment support pads (inside and outside). Cryogenics would also prefer to restrict its use to before the installation of the 1st compressor. After that access to the building should be limited to the workers directly involved with the construction and the space reduces as the installation proceeds. | Open |  | JD, ND, David M and JCW |