ID	Туре	Object Heading	Object Text	Rationale	Notes
Crtlrm-Lx-1	Definition	Underground control room definition	Underground control room shall serve as a central place from which various functions of the far detector facility shall be monitored and controlled.	We need to define all function of this space before construction since expansion of this space is difficult in the future. The control room space may be subdivided further to serve each individual need as specified below.	This space must be adequate for 4 single phase detectors since this is considered the worst case in terms of space.
crtlrm-lx-2	requirement	control room cable trays and services	Control room shall have adequate space for all entering and existing cables, and services.	The cables include data cables from the detector cavern, control cables, power cables for cotrol room equipment, communication cables, safety related services, any special purpose services such as gas, water.	

crtlrm-lx-3	requirement	control room DAQ electronics racks	Control Room shall have space for electronics racks for the DAQ system	Number of racks are to be specified according to the DAQ model adapted
crtlrm-lx-4	requirement	DAQ computer systems and local data storage, network services Cryogenic control electronics racks	The control room shall accommodate DAQ computer systems, data storage and netwok services Control room shall accommodate electronics racks for cryogenic system	Computer systems, power requirement, and environmental requirements for long term operation are to be specified.
crtlrm-lx-5 crtlrm-lx-6	requirement	cryogenics controls station	Control room shall have a control station with monitors and keyboards, etc for cryogenic equipment.	

crtlrm-lx-7	requirement	central location for information through bulletin boards, online systems, monitors	Control shall have adequate provisions for bulletin boards, monitoring displays, and other systems for information exchange.
crtlrm-lx-8	requirement	central location for informal gathering	The control room shall accommodate the need for informal small meetings of the staff during operations.
crtlrm-lx-9	requirement	central Icoation for daily meetings during installation	The control room shall contain the provision for daily meetings of the staff during installation and commissioning
crtlrm-lx-10	requirement	DAQ control stations	The control room shall have adequte number of control stations with monitors, keyboards, etc. to control the DAQ.

crtlrm-lx-11	requirement	Fire life safety equipment racks	Control Room shall contain racks to house the control equiment and monitoring devices for fire and life safety related to the cryogenics and Far Detector only.	This is part of SURF. Do we need space for this in our control room. Ask Tracy + Josh.
crtlrm-lx-12	requirement	Fire and life safety control station	Control room shall contain a control station with monitors and keyboards, etc for fire and life safety	This is part of LBNF and SURF. Ask Tracy and Josh.
crtlrm-lx-13	requirement	common work spaces for visitors	Control room shall contain adequate number of common work spaces with network, phone, and power with appropriate environment in terms of temperature, ventillation, and noise.	Lets have space for 15 people. Specified by the FDCCI group.
crtlrm-lx-14	requirement	Logbook storage	Control room shall have adequate shelf space for paper logbooks, manuals, stationary, etc	1 large bookcase needed.

			Control room shall	
			have adequate shelf	The space on top
			space for storage of	of detector will
			appropriate amount of	be used for this
		Calibration and	calibration equipment	equipment. No
		testing equipment	and tools only for FD	space needed in
crtlrm-lx-15	requirement	space	calibration tasks	the control room.