FR.Det.LAr Cryo.CST	The detector cryostat shall provide a stable liquid argon environment for the detector and mechanical support for the TPC	FR.Det.LAr Cryo			
FR.Det.LAr Cryo.CST.STD	The cryostat shall be designed to comply with the pressure rating of the components	FR.Det.LAr Cryo.CST	FR.Det.LAr ESH.STD		
FR.Det.LAr Cryo.CST.Flow	The liquid argon shall have local flow speeds low enough to prevent distortion of the electron drift trajectories	FR.Det.LAr Cryo.CST	FR.Phy.LAr Tracking		
FR.Det.LAr Cryo.CST.NoBubbles	No bubbles shall be allowed to pass through the TPC active volume	FR.Det.LAr Cryo.CST	FR.Phy.LAr Tracking		
FR.Det.LAr Cryo.CST.GasFlo	A vertical gas flow velocity of > 1.2 m/hr shall be maintained within the cryostat in regions where the temperature exceeds 120K. This requirement ensures that contaminants outgassing from warm materials in the cryostat do not diffuse into the liquid argon.	FR.Det.LAr Cryo.CST	FR.Det.LAr Purity		
FR.Det.LAr Cryo.CST.Temp	The cryostat shall be designed so that the temperatures of all surfaces within the ullage are higher than the saturation temperature of the argon gas	FR.Det.LAr Cryo.CST	FR.Det.LAr Cryo.CST.GasFlo		
FR.Det.LAr Cryo.CST.NoReliq	There shall be no sources of argon gas reliquefaction inside the cryostat, e.g. un-insulated pipes carrying liquid argon. Such a source would create a condition that violates the vertical gas flow requirement	FR.Det.LAr Cryo.CST	FR.Det.LAr Cryo.CST.GasFlo		
FR.Det.LAr Cryo.CST.Support	The cryostat shall provide support for the TPC and ports for cryogenic system monitors, high voltage and signals.	FR.Det.LAr Cryo.CST			

FR.Det.LAr TPC	The Time Project Chamber shall provide the means of detecting charged particles in the detector and a means of transmitting detector signals to the Data Acquisition System	FR.Det.LAr			
FR.Det.LAr TPC.WSP	The TPC wire spacing shall be < 5 mm to meet the physics requirement for electron/photon discrimination	FR.Det.LAr TPC	FR.Phy.LAr Osc.ePhotSep		
FR.Det.LAr TPC.WireSag	The variation in the wire sag shall be < 0.5 mm	FR.Det.LAr TPC	FR.Phy.LAr Tracking		
FR.Det.LAr TPC.3Planes	Three instrumented wire planes are required to provide redundancy in the discrimination of electrons from photon conversions and to ensure long term reliability over the life of the experiment	FR.Det.LAr TPC	FR.Phy.LAr Oper		
FR.Det.LAr TPC.Orient	The wire planes shall be oriented relative to each other to optimize the measurement of high energy and low energy tracks from accelerator neutrino interactions	FR.Det.LAr TPC	FR.Phy.LAr Osc		
FR.Det.LAr TPC.MIPSN	The detector shall be able to distinguish a Minimum Ionizing Particle (MIP) from noise with a signal to noise ratio > 8:1	FR.Det.LAr TPC	FR.Phy.LAr Tracking		
FR.Det.LAr TPC.10MIP	The detector shall be capable of measuring the ionization of a 10 MIP particle. This requirement is necessary to perform particle identification of stopping kaons in the proton decay channel p --> K+n	FR.Det.LAr TPC	FR.Phy.LAr PDK.KID		
FR.Det.LAr TPC.DynRange	The electronics shall have a dynamic range > 100:1	FR.Det.LAr TPC	FR.Det.LAr TPC.MIPSN	FR.Det.LAr TPC.10MIP	
FR.Det.LAr TPC.Lifetime	The in-vessel electronics shall be designed to operate for the life of the facility without requiring access to the cryostat	FR.Det.LAr TPC	FR.Phy.LAr Oper		
FR.Det.LAr TPC.NoHVNoise	The cathode high voltage shall not introduce noise into the electronics	FR.Det.LAr TPC	FR.Det.LAr TPC.MIPSN		
FR.Det.LAr TPC.Materials	All materials in the cryostat shall be qualified for use with liquid argon	FR.Det.LAr TPC	FR.Det.LAr Purity		