ID	Name	Description	Rationale	Design Validation	Verification Method
CAL- 001		Measure the electric field at a given position to better than 1%	In order to reach the physics goals of DUNE, ND must deliver flux measurements for FD and not increase systematic errors associated with the measurements.	ScSims	Full Scale Demonstra- tor
CAL- 02	Calibrated Field Uniformity of 96% (TBR) of active volume	Calibration correction matrix for the Field Uniformity of 96% (TBR) of the active volume shall be accurate to 1%, for all ND LAr TPC modules drift volumes	delivered electric field needs		
CAL- 003	E field stability over time	Run calibration tests between beam spills and monitor E field stability (spatial uniformity and cross-calibration) and update calibration matrix as needed.	between beam spills does not affect detector livetime, while calibrating detector	ScSims	Full Scale Demonstra- tor
CAL- 005	Vertex reconstructio n precision	Calibration system shall provide measurements to determine corrected vertex (interaction point) precision to better than 0.5 cm	ND pixels are spaced at 0.4 cm driving the limit on the precison of vertex reconstruction. Their spacing in turn is driven by the wire spacing in the FD which is 0.43 cm.	ScSims	Full Scale Demonstra- tor
CAL- 006	Electron Lifetime	Calibration system shall measure the electron lifetime of self generated electron cloud with an uncertainty of TBD	Measurement precision of the electron lifetime should be such to not affect the energy reconstruciton of interactions in the ND modules and this should guide the requirement for the measurement.	Eng Analysis	Full Scale Demonstra- tor