ID	Name	Description	Rationale	Design Validation	Verification Method
FCG- 002	Electric Field Uniformity	Field Cage (FC) shall provide an electric field within < 5% of the nominal field throughout fiducial volume	Field non-uniformity should be small enough, such that they can be measured and modeled to less than 1% to match the far detector performance. The electric field will be corrected in the event reconstruction analysis.	Analysis/ Full Scale Demonstra- tor	MIF Integrated Testing
FCG- 003	Electric Field Strength	The field cage shall be able to support an electric field strength >250 V/cm (goal 500 V/cm) without voltage breakdown	Equivalent electric field as FD to enable operation of the near detector with equivalent levels of electron recombination and other field-dependent effects.	Design/ Full Scale Demonstra- tor	MIF Integrated Testing
FCG- 004	Fiducial Volume	FC geometry shall create an active fiducial volume that encompasses all of the pixel plane or > 94.5 m^3	Full pixel plane should be useable without compromise from field distortions. Otherwise, the effective dead region of the detector increases.	Design	Design
FCG- 005	Dead volume	Contribution of the field cage to the dead volumes shall be less than TBD	ND-LAr should match the FD specifications accounting for the different geometry/readout systems.	Design	Design
FCG- 010	Contaminatio n	LAr impurity contributions from components shall be < 30 ppt	Field structure materials must not emanate impurities that affect LAr electron lifetime	Design/ Full Scale Demonstra- tor	MIF Integrated Testing

ID	Name	Description	Rationale	Design Validation	Verification Method
FCG- 012	Structural Support for charge and light readout		The field cage provides the mechanical support as well as cable routing	Design/ Analysis	MIF Integrated Testing