Charge- ight Signal Matching fficiency Detector Optical Modularity	able to associate scintillation light signal times to ionization signal clusters from fiducial neutrino interactions with an efficiency, averaged over interactions, of > 97% by energy . The ND LArTPC shall have optically isolated	Efficient matching of the charge signals with the fast (~ns-scale) light signals enable accurate discrimination of the charge signals from the approximately 50 neutrinos contributing to the charge signals per ~10us-wide beam spill.	Validation ScSims	Method ScSims
Oetector Optical	have optically isolated			
	· ·	Isolation of scintillation light within LArTPC modules facilitates charge- light signal matching.	Design	Test/ Inspection
ArTPC erformanc after RISM etector nove	meet operational performance requirements (Electric field uniformity & stability, module alignment, noise, live pixels), within 1 hour after PRISM movement of the detector	Start taking high quality data within an hour. This is a allocation of time to complete all activites associated with PRISM move within an 8 hour shift, driven by operational resource, and to achieve the required number of moves in a year with a 5% integrated downtime attributed to moving the detector (1 move/week)	Eng Analysis	Eng Analysis
lectric ield trenoth	The ND LArTPC shall be able to achieve an electric field strength >250 V/cm (goal 500 V/cm)	Equivalent electric field as FD to enable operation of the near detector with equivalent levels of electron recombination and other field-dependent effects.	Full Scale Demonstra- tor	MIF Integrated Testing
A e a R e a c l e i e	arTPC rformanc ofter EISM tector ove	performance requirements (Electric field uniformity & stability, module alignment, noise, live pixels), within 1 hour after PRISM movement of the detector The ND LArTPC shall be able to achieve an electric field strength >250 V/cm	performance associated with PRISM move within an 8 hour shift, driven by operational resource, and to achieve the required number of moves in a year after PRISM movement of the detector the detector able to achieve an electric field strength PRISM sassociated with PRISM move within an 8 hour shift, driven by operational resource, and to achieve the required number of moves in a year with a 5% integrated downtime attributed to moving the detector (1 move/week) Equivalent electric field as FD to enable operation of the near detector with equivalent levels of electron recombination and other field-dependent	performance associated with PRISM requirements (Electric field uniformity & shift, driven by stability, module alignment, noise, live pixels), within 1 hour after PRISM movement of the detector the detector the detector able to achieve an electric field strength >250 V/cm (goal 500 V/cm) performance associated with PRISM move within an 8 hour shift, driven by