

WBS	Activity Description	WBS Definition	Activity Type	Baseline Start	Baseline Finish
2	SBN Near Detector Construction	This summary level task is for the work of design, construction and installation of the liquid argon near detector for Fermilab short baseline neutrino program.	Project	Nov-14	May-19
2.1	Project Management Support	This WBS element includes the tasks to support project management activities including scheduling, value management, risk management, schedule monitoring, quality assurance, preparation of reports and other related activities.	Subproject	Nov-14	May-19
2.2	Preliminary Detector Design	This WBS element includes tasks for a preliminary engineering design of the time projection chamber (TPC) near detector, its installation support and interfaces with cryostat and detector building.	Subproject	Nov-14	Jan-16
2.3	TPC Construction	This WBS element includes tasks of design, procurement, assembly and delivery of TPC components for the near detector.	Subproject	Mar-15	Sep-17
2.4	PMT Light Detector Construction	This WBS element includes tasks of fabrication and installation of light detection system using Photomultiplier Tubes (PMT) to detector scintillator light in TPC	Subproject	Oct-15	Jul-18
2.5	Cosmic-ray Tagger Detector and Laser Calibration System Constructions	This WBS element includes tasks for design, assembly and installation of the cosmic ray tagging detector and the laser calibration system.	Subproject	Nov-14	May-18
2.6	TPC Electronics	This WBS element includes tasks for design, fabrication, test and installation of TPC electronics including cold electronics and back-end readout electronics.	Subproject	Mar-15	Jul-18
2.7	Readout and DAQ	This WBS element includes tasks for specification, design and assembly of Readout Electronics supports and DAQ system to collect and transfer near detector readout data.	Subproject	Jul-15	Feb-19
2.8	Installation Coordination	This WBS element includes final installation and integration tasks for the detector hall installations of detector components including TPC, light detector, cosmic ray tagger, readout electronics and DAQ system.	Subproject	Feb-16	Apr-19
2.9	Cryostat	This WBS element includes tasks of design, construction and installation of the membrane cryostat for TPC operation in liquid Argon.	Subproject	Jan-15	May-19
2.10	Scintillator Light Detector R&D	This WBS element includes R&D tasks of scintillator light detectors to be operated along TPC in liquid argon.	Subproject	Jan-17	Apr-19