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Geodetic and Alignment Concepts for the LBNF/DUNE

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In the context of today's global interest in the neutrino research programs, with special emphasis on long baseline neutrino oscillation experiments, the LBNF project at Fermilab receives special attention as the world's highest-intensity neutrino beam to be sent 1,300 kilometres straight through the earth's mantle to the massive high-precision DUNE experiment's detectors located one mile deep underground at the Sanford Underground Research Facility (SURF) in Lead, South Dakota. This paper presents an overview and an update of the concepts and proposed methodology to implement geodetic and industrial alignment procedures to support the project recent reconfiguration and optimization design of the LBNF particle beam line and the DUNE detectors.

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