

Geotechnical Monitoring and Structural Support for the LBNF Project

Wednesday, May 11, 2022 5:20 PM (20 minutes)

RESPEC is currently working with Thyssen Mining Inc. and Fermilab to support their work during the Main Excavation Phase of the LBNF Far Site Facility. RESPEC has installed geotechnical monitoring equipment including seismographs and multiple point borehole extensometers (MPBX) in the underground at the 4850 Level. The seismographs are used to monitor daily blasting activities including the ground vibrations and air overpressure readings following each blast. Multiple point borehole extensometers, inclinometers, and convergence stations will be used to monitor the stability of the large underground caverns during excavation and over the next several decades. In this presentation, RESPEC will discuss the geotechnical monitoring systems they have deployed underground, future instrumentation equipment, and the central data management system used to collect and interpret the geotechnical data. Additionally, RESPEC will discuss other projects and support they have been providing to the LBNF project.

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