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Survey and Alignment of the Fermilab ICARUS Neutrino Detector

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The ICARUS neutrino detector, which measures 20 meters long and weighs 760 tons, serves as the Short-Baseline Program Far Detector. It consists of two cryostats, ICARUS1 and ICARUS2. Each cryostat holds liquid argon time projection chamber modules and photodetectors. ICARUS1 and ICARUS2, also known as Cold Vessels, are installed in a Warm Vessel inside the Short-Baseline Neutrino Far Detector Building at Fermilab. This paper summarizes the survey and alignment of the ICARUS Neutrino Detector using the Laser Tracker. The installation and survey of the detector was completed in August 2018.

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