

Fermilab Drift Tube LINAC Tank 5 Water-to-Vacuum Leak Repair

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In late 2022 tank 5 of Fermilab's Drift Tube LINAC (DTL) started experiencing a gradual degradation in vacuum level due to a water-to-vacuum leak on a cooling line that ran internal to the vacuum chamber. The leak was in a difficult to access location and pinpointing and repairing the leak would have resulted in significant operational downtime. A unique method for sealing the leak internally to the cooling tube was learned from colleagues at another national lab and used successfully to repair the tank 5 leak.

Summary

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