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Title: Halogen Leak Detection at DAHRT

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Halogen Leak Detection at DARHT

Rudy Valdez received a \$1000 pollution prevention grant and used it to purchase two handheld halogen leak detectors for use at DARHT. Once the detectors arrived, LANL personnel used them to discover several leaks in the piping that delivers sulfur hexafluoride to sensitive electrical equipment at DARHT. Once the leaks were discovered, they were quickly fixed to prevent the loss of sulfur hexafluoride, which is a potent greenhouse gas, to the atmosphere. The handheld halogen detectors continue to be used to ensure the integrity of the piping that delivers sulfur hexafluoride. It is estimated that this project reduced the use of sulfur hexafluoride at LANL by at least 6 cylinders (approximately 700lb) per year. Eliminating the use of this much sulfur hexafluoride is the equivalent of eliminating over 16 million pounds of carbon dioxide emissions per year since sulfur hexafluoride has a very high global warming potential.