

Biannual Briefing Note

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Agency: Husky Energy



Prince George Husky Refinery – Leak Detection & Repair Program

The Prince George Husky Refinery contains equipment, such as valves, pumps, connections and seals, which present a potential source of fugitive emissions of volatile organic compounds (VOCs). To mitigate the potential of these emissions, Husky implemented a Leak Detection and Repair (LDAR) program that conforms to the Canadian Council of Ministers of the Environment's (CCME) *Environmental Code of Practice for the Measurement and Control of Fugitive VOC Emissions from Equipment Leaks*.

LDAR is a work practice designed to identify equipment that could potentially leak, so that emissions can be reduced through repairs. A component subject to LDAR requirements must be monitored at regular intervals to determine whether it is leaking. Any leaking component must be repaired or replaced within a specified time frame.

Husky initiated LDAR testing as a pilot project in 2007 and began full-scale implementation in 2011, incorporating an information management system that supports the full lifecycle of a leak detection program. Potential leak sources were identified by measuring VOC concentrations at valves, pumps, connections, seals and other system components that occur as part of normal wear and tear in plant operations. Component repairs were completed where appropriate, conforming to CCME performance guidelines.

Emissions reduction from the LDAR program increases safety for workers and the public, decreases potential exposure of the community to VOCs and reduces product losses. LDAR is integrated into Husky's work practice with regular monitoring and repair campaigns. The Refinery has realized a 54% reduction in fugitive process VOC emissions since implementing LDAR in 2011. This equates to almost 70 tonnes of VOCs removed from the Prince George air shed annually.

