



Biannual Briefing Note

Date: November 2013

Agency: Husky Energy



Prince George Husky Refinery – Sulphur Emissions Reduction

The Prince George Husky Refinery has been working to reduce sulphur dioxide (SO₂) emissions for more than a decade. Starting with the Clean Fuels Upgrade in the mid-2000s, to meet Environment Canada regulations for reduced sulphur in gasoline and diesel, Husky has invested over \$100 million.

- Gasoline sulphur reduced by 90% (from 300 ppm to 30 ppm)
- Diesel sulphur reduced by 97% (from 500 ppm to 15 ppm)

The Fluid Catalytic Cracking Unit (FCCU) is a source of SO₂ emissions. In 2012 Husky conducted a 90-day trial to examine the potential for reducing SO₂ emissions in its FCCU Regenerator flue gas, using an SO_x reduction catalyst additive. The success of the trial led Husky to adopt this technology and the Company is working with the B.C. Ministry of Environment on a plan to reduce Husky's permitted SO₂ emissions.

Air Quality Improvement Highlights

- Husky installed new equipment during the Clean Fuels Upgrade and is using the best available technology (e.g., low NO_x burners for the Refinery's new heaters and internal floating roofs for new storage tanks).
- The Clean Fuels Upgrade has reduced vehicle emissions in the region because of reduced sulphur in the fuels supplied from the Refinery.
- Over the past decade, Husky has reduced SO₂ emissions from the Refinery by 70 percent.

