

NOVA Chemicals Joffre Site

About Ethylene 2 (E2)

In 1981, two years after the first ethylene facility (E1) started operations at the Joffre Site, construction started on a second ethylene facility (E2). Three years later, E2 was started-up in June 1984. New technology and furnace design resulted in increased energy efficiency (about 25% better) over E1.

Responsible operations - The Joffre Site has a comprehensive soil and groundwater management system to control/eliminate all existing and potential sources of contamination. E2 has introduced a new 'leading edge' risk-based approach to manage small, localized soil contaminated areas.



Production capacity 1.8B pounds / 816,480 metric tonnes per year (increased from original 1.5B pounds)



With a balanced draft design the 11 furnaces are noticeably different than original (corkscrew spiral) natural draft furnaces in E1.



A flare stack 250 feet (76.3m) above the ground (similar to all site facilities) is the principle safety device for near-complete combustion of hydrocarbons when in upset operating conditions or during a shut-down or re-start.



A control room is the center of manufacturing operations with about seven Operators covering each 12-hour shift. Each facility has a stand-alone control room staffed 24 hours a day, 365 days per year.