

# Magnola Commercial Magnesium Plant

Danville, Canada



NOVOPRO professionals were involved in all basic engineering aspects of the electrolysis and foundry sections, as well as in the overall plant layout for Magnola's 63,000 tpy full-scale magnesium plant.

The areas of activities comprised of the design of the electrolysis building included the overall cell hall layout, gas collection, bus bar design, overall electrical insulation philosophy, and the design of the cell relining equipment and building.

Other areas of involvement were in the design of the molten metal transport system, as well as the foundry building, including the salt holding furnaces, crucible alloying furnaces, and the casting machines.

Prior to this project, the personnel at NOVOPRO were involved in the detailed engineering, construction, commissioning, and start-up of a \$30 million Magnola magnesium Pilot Plant. Responsibilities included the plant layout, design of all mechanical and piping aspects, and detailed design of the cascading leach reactors, molten salt chlorination unit, salt furnace, bus bars, and the electrolyte management system.

## CLIENT

Noranda

## LOCATION

Danville, Canada

## YEARS

1998

## PHASE

- Feasibility Study
- Basic Engineering

## COST

\$750 M (CAD)

