



A Rockwell Automation Company

## Norcen Energy Resources - Fort Saskatchewan Controls Upgrade Moore APACS

### The Client:

Suncor Energy Inc. is one of the major producers of oil from the oil sands in Northern Alberta. The Fort McMurray Oil Sands Complex has been in existence since 1967 and is being expanded through the

Millennium project in 2001 to improve efficiency and increase production.

### The Requirement:

Upgrading Services is the segment of the complex that removes chemicals and minerals from the bitumen (thick oil). The heat exchanger removes heat from the various upgrading processes to keep a constant process temperature. The existing louver system for the heat exchanger used manual louver controls and single speed motors. The louvers needed to be adjusted manually in order to affect the air flow. The fans also had to be manually started and stopped. The louvers

were several stories up and quite a distance away from the control room, making it a very time consuming and labor intensive task to maintain. The project consists of completely refurbishing the existing louvers and creating an automatic control system to run the fans.

### The Design Solution:

In order to allow the operators better control of the air flow, the fan motors were controlled by VFDs. Two new temperature transmitters were installed to provide a more accurate reading of the air temperature. New air piping and valving were installed to allow easier operation of the louvers. All of the new equipment was connected to a new Honeywell DCS cabinet through a new marshalling cabinet.

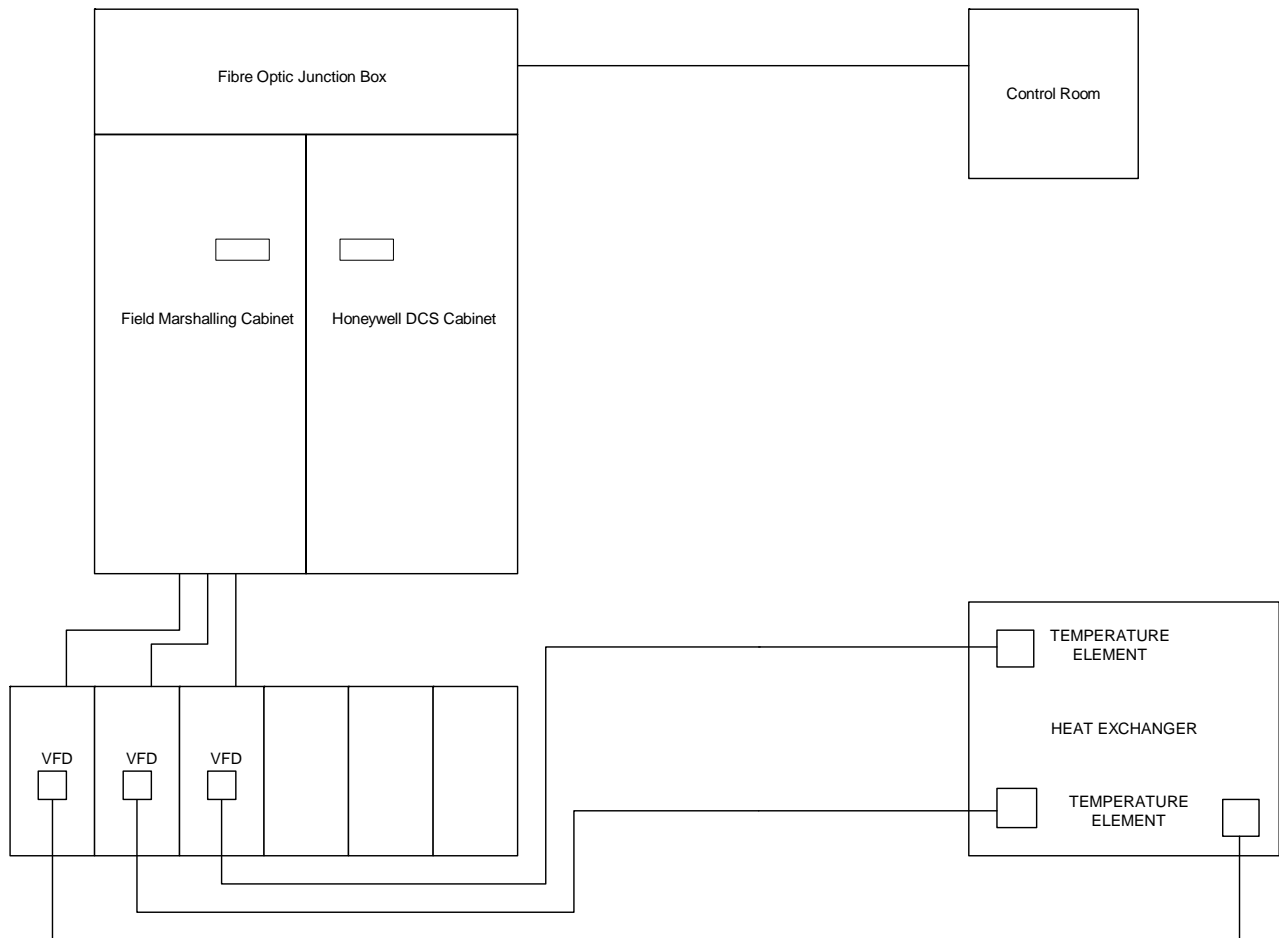
The I/O from the new equipment was then connected to the existing Honeywell DCS system via fiber-optic cabling. The Honeywell DCS equipment installed

matched previous installations to take advantage of existing spares and operator and maintenance familiarity.



A Rockwell Automation Company

## Suncor Oil Sands Group Heat Exchanger Modifications



For further information or to contact a Hinz office near you, please check our website at:

[www.hinz.com](http://www.hinz.com)