



## **2000 – News & Announcements**

### ***10/04/2000 – Minneapolis Office Area Code Changes***

Effective immediately, the area code for our Minneapolis have changed.  
The phone and fax numbers are now:

Ph: (952) 432-7555

Fax: (952) 432-9117

### ***09/22/2000 – Center for Micro-gravity Research and Education***

Hinz Automation Inc. is part of a technical team pursuing the creation of the "Center for Micro-gravity Research and Education" (CMORE). CMORE is a proposed microgravity research facility located in Saskatoon Canada, and would be affiliated with the University of Saskatchewan. The availability of a nearby mine shaft that can be economically converted to a 900+ meter deep drop shaft is a key factor in the viability of this venture.

The proposed CMORE facility will be a world leader among microgravity ground-based research facilities. Researchers will also be able to take advantage of synergies with the University of Saskatchewan, the newly constructed state of the art Canadian Light Source (CLS), and high technology research companies that are housed in the world renowned adjacent research park "Innovation Place". CMORE will provide up to 12 seconds of free-fall experiment time. A "drop capsule" is used for the micro-gravity experiments. The drop capsule will be equipped with thrusters that will be controlled to maintain less than 0.000001 g of acceleration for the duration of the drop. It will also withstand approximately 15 g's of deceleration at the bottom of the shaft.

This project is still in the funding phase, and Hinz Automation is participating, along with several other companies, in the development of the capital cost estimate for construction of the facility. When the project proceeds Hinz Automation will be responsible for the overall electrical power and control design of the facility.

## **08/09/2000 – Hinz Automation Inc - Houston, Texas Office Opens**

Hinz Automation opens a new office in Houston, Texas, oil and gas capital of the world.

The office is located in the Greenspoint area near the airport in northwest Houston. The Greenspoint area is home to Exxon, Mobil, Anadarko, Kerr McGee, Marathon, and Equiva, as well as numerous firms serving the energy industry.

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## **07/2000 – Weyerhaeuser Drayton Valley - Green End Modernization**

Hinz Automation Inc. is an integral part of the project team selected to design the Green End Modernization currently underway at Weyerhaeuser's Drayton Valley, Alberta OSB plant. Hinz Automation Inc. is responsible for the electrical and control system design for the project. Completion is currently planned for June 2001.

## **06/23/2000 – Manitoba Hydro Project Completion**

Hinz Automation has just completed the fifth project for Manitoba Hydro Generation Projects Division.

Great Falls Generating Station is located on the Winnipeg River system northeast of Winnipeg and has six hydro generators. The intent of the project is to provide Joint Load Control and Joint VAR control for the generators. A PC- based alarming system is also required for the Control Room. There will also be remote access of the Cimplicity system at Seven Sisters Generating Station from Great Falls Generating Station.

The system configuration for GFGS UCMS includes a redundant set of PLCs for each generator and a redundant set of PLCs for general station operation for a total of seven PLC sets. The operator interface will have a redundant host configuration.

The PLCs are GE Fanuc 90-70 redundant series using GE Fanuc Genius Blocks with two Genius Buses per generator. The operator interface is GE Fanuc Cimplicity HMI version 3.2.2. running on dedicated computers under Windows NT version. 4.0.

Hinz Automation and Manitoba Hydro arranged a unique schedule for the engineering tasks associated with this project. The work was divided into three phases. The first phase involved preliminary design and was carried out at the Hinz offices. The second phase involved detailed design and was carried out at Manitoba Hydro's Waverly St. premises over a period of several months, with Hinz personnel working 'hand-in-glove' with client personnel. The final phase consisted of project documentation and was completed at the Hinz Winnipeg office.

This work arrangement could led to faster input, faster approval, and minimal rework. This approach also allowed Manitoba Hydro to augment the design team with internal personnel and operations personnel, which is a source of training and reduced the total project cost. INCLUDED IN SCOPE The proposed engineering and software configuration tasks for the GFGS UCMS are detailed below. This proposal was based on the similar projects successfully completed by Hinz Automation, namely Grand Rapids GS, Limestone GS and Seven Sisters GS.

- · Joint Load Control
- · Redundant PLC and HMI configurations (as per Grand Rapids GS)
- · Alpha-Numeric Alarm Pager
- · Implementation of Hold Card System for JVC and JLC only for each unit.
- · Remote Access of Seven Sisters GS UCMS from Great Falls GS UCMS.
- · Archiving of data to DAT tape
- · Hysteresis programming of alarm thresholds
- · Selectable enabling of fault log production

## ***06/21/2000 – Hinz Edmonton Office Expansion!***

The Edmonton Hinz Automation office will soon be expanding its office space by fifty percent. This will include the addition of several new offices, a new lab area and a break room. This will be an extension of the improvements made during the last expansion and renovation done in 1996. The Edmonton office was opened 1981 and moved into its current location the following year. Since that time it has seen three expansions and many neighbors have come and gone, including Allen Bradley – Rockwell Automation and Honeywell. The office layout is attractive and functional. The creation of the new lab area will give the system developers the ability to stage larger systems. The additional offices give our engineers and developers the privacy to really concentrate on problem solving.

## ***06/19/2000 – Westroc Mill Upgrade reaches first milestone!***

Preliminary P&ID as-builts are now complete for the Calgary Mill Plant. The project will automate numerous manual processes. Hinz Automation Inc. is supplying engineering services to upgrade the field electrical, instrumentation and control. Plant control will utilize a PLC-based control system. Operators will have the ability to monitor the facility with graphical user interfaces. Westroc is Canada's largest manufacturer of drywall, finishing products, decorative mouldings, and pre-finished wall systems.

## ***04/27/2000 – McCain Foods Limited, Coaldale, Alberta***

StartUp Achieved!

The McCain Coaldale Fry Plant is a new french fry plant located in Southern Alberta that produces product for restaurants and retail markets. Hinz Automation in Calgary provided McCain with electrical and control system design, electrical construction supervision and commissioning assistance for the construction of the plant.

The plant electrical service has a capacity of 7.5 MVA with over 800 loads on the 4160 and 480 volt power systems, including over 100 adjustable speed drives.

Notable electrical design tasks included: electrical load forecasts, demand and protection studies, sizing of the electric service, Utility negotiations for both the construction power services and the permanent plant service, design of the plant electrical distribution system (200+ electrical drawings), specification of electrical distribution equipment, equipment bids and purchase recommendation, co-ordinated lighting design with

vendors, reflected wave study, power factor correction design, surge protection design interface with 10+ equipment OEM's.

The plant is heavily automated with 30+ PLC's, and 15 HMI PC's on a plantwide fiber/ethernet network. 100+ adjustable speed drives on controlnet and devicenet for sensors and small PLC's.

Notable Control system design tasks included: instrument specification, plant instrument database, OEM equipment interface, PLC programming, HMI database and graphics configuration, network design and setup for controlnet and devicenet, network design for ethernet LAN.

Electrical construction activities spanned a 9 month period and used a peak labor force of 50+ electricians.

Notable construction supervision and commissioning tasks included: Co-ordination of 9 work packages performed by 3 different contractors, administration of fixed price and time and material contracts, Plant was completed and started on schedule.

### ***04/27/2000 – Weyerhaeuser OSB2000 , Hudson Bay, Saskatchewan***

Engineering of this CAD\$180 million OSB plant is nearing completion. The 24,000 HP plant has a planned annual production (3/8" basis) of 570 million square feet. Programming of the Green End Dryer, Blending, and Pollution Control Systems, are underway for a startup in September, 2000.

Hinz Automation Inc. is responsible for all electrical engineering and Automation design for the facility. Engineering on the project commenced in January of 1999.

## ***04/27/2000 – Norbord South Carolina OSB Project Update***

The first board is imminent as construction and commissioning nears completion. This Norbord Industries Inc. facility located near Kinards, S.C. has a design capacity of 500 million square feet (3/8" basis) annually. It employs an 8 x 181 foot continuous press line and conveyor technology.

Hinz Automation Inc. has supplied engineering services for all electrical and controls in the facility. The plant has in excess of 800 motors with a connected horsepower of 26,000 fed from a 100KV - 4 160V substation. PLC-based controls monitor and control up to 6000 I/O points providing information to operators via an array of graphical screen displays.

## ***04/27/2000 – Alliance Pipeline - Project Status Update***

Phase 1 implementation of the SCADA system has now been in operation since January, 2000 to permit site commissioning and pipeline purging. SCADA system commissioning is now complete on approximately 40 of the 160 sites, including block valves, lateral meter, lateral and main line compressor sites. Phase 2 systems including Model, EFM and GMS is entering final testing stages and is on schedule for installation in June 2000.

The Alliance Pipeline is a 3000 Km 36 and 42 inch high-pressure pipeline extending from N.E. British Columbia and western Alberta to the Aux Sable Liquids extraction facility outside Chicago, Illinois.

The pipeline is scheduled for service October 1, 2000.

## ***03/21/2000 – Norbord Alabama***

Hinz Automation Inc. has been awarded the new Oriented Strand Board (OSB) plant in Huguley, Alabama for Norbord Industries Inc. The contract to Hinz includes engineering services for the electrical and automation systems within the facility.

The Norbord plant is estimated at USD\$120 Million with construction already underway, targeting an April 2001 startup.

The electrical design involves some 26,000 Hp and 6000 I/O of PLC-based automation, including multiple operator interfaces.