



2002 – News & Announcements

12/27/2002 – Management Information System Awarded to Hinz Automation

Meadow Lake OSB Limited Partnership has awarded the development of the Management Information System (MIS) for their new OSB plant to Hinz Automation Inc. The plant is presently under construction and is located in Meadow Lake Saskatchewan. The plant PLC system is Rockwell Automation's ControlLogix products. The PLC processors are connected together using a 1 Gigabit backbone Ethernet system. The MIS system will be developed in phases. The first phase will involve tracking key production data and producing real-time production reports. The second phase will be to publish the production reports to their corporate head office using a web browser.

12/16/2002 – Photo Finish...

The Alchem Hargrave plant completed its start up earlier this year and is operating at production levels. Recently Hinz CEO, Ryan Hinz and Jon Bois from Hinz in Edmonton presented the Alchem plant manager Greg Bott a plant photo commemorating the plant's first year in operation. The Alchem plant manufactures sodium chlorate, an environmentally preferred bleach used in the pulping process. Hinz provided electrical and controls for this new plant.

12/02/2002 – Hinz Pockets Popular Paper Presentation Position at Rockwell's Automation Fair

On November 20 & 21 Hinz Automation presented a technical session paper entitled "Integrated Application of ProcessLogix and ControlLogix in a New Plant" at Rockwell's Automation Fair in Anaheim, California. The session discussed the control system equipment selection, network architectures, etc. for a new plant. The session covered the integration of ProcessLogix, ControlLogix, ControlNet, DeviceNet and smart Motor Controls. It also included discussion of the vendor selection process and plant environmental constraints. Of the 49 sessions it was the fourth most highly attended.

Attendance at the show was very high and Rockwell and Westburne should be congratulated for a tremendous fair. Traffic at the Hinz booth was very active with customers providing Hinz with excellent project opportunities.

11/06/2002 – Unocal selects Hinz Automation for Whitecap SCADA project

Unocal Midstream & Trade, operates over 14,000 miles (22,400 km) of pipelines that transport crude oil, refined petroleum products, and natural gas throughout the United States. Unocal Pipeline, part of UMT, has selected Hinz Automation to provide a new SCADA Master System which will be installed at Unocal's Beaumont Terminal in Nederland, Texas,

The new SCADA Master will assume operation of the Whitecap, UPC Offshore and Ship Shoal 266 pipelines. The main pipeline involved is the Whitecap Pipeline in the Gulf of Mexico which is a crude oil gathering pipeline that typically carries 58,000 barrels of crude oil per day. The UPC Offshore pipeline carries 9,270 barrels of crude oil, while the Ship Shoal 266 typically carries 1,860 barrels of crude oil per day.

Hinz Automation is supplying all hardware, software, and services for the new SCADA Master Station project. The primary SCADA function is to provide data acquisition, alarm and event management, history collection, and reporting. The SCADA Master software will be Wonderware FactorySuite's. InTouch V.7.11, InSQL V.8.0 and ActiveFactory 3.2.1. Multiple instances of InTouch will be supported through one InTouch running on the console with other copies of the InTouch application running through Terminal Services. SCADAAlarm version 5.0 is being utilized for the automatic call out system.

The system configuration is comprised of networked dual servers with manual fail over. The SCADA Master system will communicate with the remotes using a private satellite system from Hughes Network Systems master earth station hub in Los Angeles. Dial backup to the Hughes California Hub will be used in the event of loss of the satellite link to the SCADA Beaumont Control Center. The Unocal Pipeline system includes twenty-six remotes, interfaced to the new Master Station. The remotes are Valmet Micro/1C RTUs and Allen-Bradley PLC5/SLC PLCs.

11/05/2002 – Hinz Automation providing SCADA upgrade for Unocal's Cooke Inlet Pipeline system

Cook Inlet Pipeline is part of Unocal Midstream & Trade, which operates over 14,000 miles (22,400 km) of pipelines that transport crude oil, refined petroleum products, and natural gas throughout the United States. Cook Inlet Pipeline operates a crude oil pipeline in Alaska, gathering oil from platforms in the inlet to facilities at Drift River terminal. Ships are loaded at the Drift River terminal for transportation of the oil across the inlet.

The SCADA Upgrade project consists of work to be completed over three phases. Phase 1 involves the installation of a SCADA Ethernet network including PLC Ethernet modules. New radio equipment will also be installed which will serve as the SCADA Ethernet backbone. Phase 2 includes the installation of new SCADA hosts, based on

Wonderware Version 7.11. Two Wonderware nodes will be installed and configured to be fully capable of independently polling the field, but under normal circumstances, the nodes will share data. Numerous additional improvements to the system will be implemented, including Scraper Tracking and support for EFAXs LeakNet system. Phase 3 will include the installation of EFAXs LeakNet Pipeline Leak Detection system.

10/22/2002 – Hinz Presenting at Rockwell's Automation Fair

Hinz Automation is presenting at this years Rockwell "Automation Fair" in Anaheim, California, which runs on November 20 and 21 at the Anaheim Convention Center. The topic will encompass the application of the Rockwell Automation Hybrid Control System Architecture utilizing the ProcessLogix and ControlLogix control platforms. Check it out here: Rockwell Automation Fair.

10/01/2002 – Electric Arc Furnace Control – Manitoba Rolling Mills

Gerdau-MRM Steel selects Hinz to design installation of new Vacuum Breakers for 54 MVA EAF

Manitoba Rolling Mills is an integrated steel mini-mill producing merchant bar sections. To improve the safety and reliability of the power supply to the EAF, they are installing new vacuum breakers on the 13.8KV system. There are 18 vacuum bottles in all, with a total capacity of 3000 amps per phase. Control will be via AB PLC5.

09/09/2002 – Hinz awarded Equitable Resources SCADA Project

Hinz Automation has been selected by Equitable Resources of Pittsburgh, PA to provide a fully-integrated SCADA system for their Utilities and Production systems. Equitable Resources is an integrated energy company providing the US Appalachian area natural-gas supply, natural-gas transmission and distribution, and energy-management services.

Equitable Resources consists of three business segments: Equitable Utilities, Equitable Production and Noresco. Equitable Utilities provides gas and gas-related services to more than 270,000 customers. Equitable Production is the largest natural gas supplier in the Appalachian basin with reserves in excess of 2.0 trillion cubic feet.

Hinz Automation's scope for the project includes all Project Management, Design, Integration, and Installation of a Metso Automation OASyS SCADA Host and Metso Distributed Architecture system. The SCADA system will consist of a Main Control Centre located at Tepe, PA and a Backup Control centre at a Hartsford, PA, as well as a Production Control Centre at Charleston, West Virginia.

The system will control and monitor the entire Utilities pipeline and compression facilities and the LDC system supplying gas to the City of Pennsylvania and surrounding

area. The Production system will monitor all gas gathering and field compression facilities providing gas to the Utilities division.

09/05/2002 – Hinz awarded Clear-Green Biotechnologies contract

Hinz Automation Inc. has been chosen to provide electrical and controls engineering services to Clear-Green Biotechnologies. Clear-Green Biotechnologies is an environmental engineering company based in Saskatoon, SK.

Clear-Green is implementing a multi-stage project to construct and operate an on-site waste utilization facility that processes manure from the Cudworth Pork Investors Group (CPIG) hog operation. Raw manure will be processed into energy (in the forms of heat and electricity) and organic fertilizer concentrates. An added bonus to this facility is the elimination of the need for large storage lagoons and land application of the manure.

The plant is designed to digest the pig manure (anaerobic digestion) to extract Biogas, composed mainly of methane and CO₂. The gas is then burned in a turbine style generator to produce heat and electricity to be used by the plant, as well as the CPIG barn operations.

Hinz will be responsible for designing, selecting, and programming (where applicable) all electrical components from the terminals blocks through the PLC and including the 600V/25kV substation.

08/14/2002 – Keenleyside Power Plant Reaches Final Commissioning Stages

Hinz Automation provided the detailed design of the protection and control systems for the Arrow Lakes 170 MW hydroelectric facility. The Protection panel was designed with redundant digital protection relays to protect the two 85 MW turbine generators and the 230kV interconnection to BC Hydro. A redundant Human Machine Interface (HMI) with redundant PLCxs for each generator was implemented for control of the facility.

The plant was built at the existing Hugh Keenleyside Dam on the Columbia River near Castlegar, BC and operates as an unmanned facility. BC Hydro monitors and controls the power plant from their remote control centers.

Both of the 85MW turbines are currently running and producing power.

In addition to the protection and control systems, Hinz developed the Management Information System (MIS) for the facility. The MIS system gathers vital information about the power output, water levels, facility alarms and compiles it into daily reports that are automatically sent to BC Hydro and the Owner.

08/06/2002 – Hinz Selected for Meadow Lake OSB Plant

Tolko Industries, itxs partners, Crown Investment Corporation, Meadow Lake Tribal Council and North West Communities have formed a limited partnership to build an OSB Plant to produce 600 Million Square Feet annually on a 3/8x basis. The plant will be built near Meadow Lake, Saskatchewan.

Tolko has selected UMA Engineering Ltd. and Hinz Automation Inc. as their Engineering and Procurement Consultant partners. Detailed design commenced in April 2002.

Hinz is responsible for the complete power and control design as well as programming several of the key process areas. Hinz has previous experience on several similar greenfield projects and has been involved in the Engineered Wood industry for over 20 years.

The plant is presently under construction with scheduled commercial production beginning in the fall of 2003.

05/22/2002 – Gulfstream Pipeline in Final Commissioning Stages.

The Gulfstream Natural Gas System is a \$1.6 billion pipeline project that will deliver natural gas to electric generation facilities and other interconnects throughout Florida. The developers of the the project are Williams Gas Pipelines and Duke Energy. The pipeline originates near Mobile, Alabama, crossing the Gulf of Mexico with 431 miles of 36-inch diameter pipe to Tampa Bay, Fla. Once onshore, 129 miles of pipe, ranging in diameter from 36 inches to 16 inches, stretch across Florida.

The pipeline has the capacity to transport 1.1 billion cubic feet per day of natural gas and is the first new natural gas transportation system constructed to serve Florida in more than 40 years.

Hinz Automation was hired as the main automation contractor for Gulfstream by Willbros Engineers Inc of Tulsa Oklahoma. The project includes a Gas Treating and Compression facility and Receipt Metering Stations in Alabama, with Delivery Metering Stations throughout Florida as well as numerous Block Valve sites along the pipeline.

The Gas Treating Facility (GTF) is comprised of two parallel trains each including four tower Mole Sieve Dehys and Refrigeraton plants. Gas compression consists of three 37,000 hp Rolls Royce RB-211 turbines and Dresser-Rand Centrifugal Compressor units.

The GTF and Compression Facility control system consists of approximately 25 Rockwell ControlLogix and SLC Processors, and a Wonderware Operator Inteface system which provides all control system functions including Fire and Gas, GTF and Refrigeration, Compressor Units, Utilities and overall Station control. The Wonderware

System system consists of dual servers in a redundant configuration with multiple Operator workstations as well as redundant Wonderware InSQL Servers.

The Wonderware system uses OPC communications, with final system size approaching 20,000 tags. The extensive Ethernet communications system uses fiber optic cabling within the GTF/ Compressor facility and a microwave-based WAN to the Receipt Meter stations. All metering stations include a ControlLogix processor, Flow Automation flow computer and a Panelview operator interface. The pipeline control system also provides information via WAN to a Metso SCADA host at the gas control center in Houston Texas.

Hinz was hired in October 2001 and quickly mobilized a team to tackle this project. At its peak, Hinz had over 40 people working on the project in order to successfully meet the extremely tight schedule. Commissioning is now nearly complete on both the GTF/Compression facility and metering stations with gas scheduled to be delivered ahead of schedule to Florida in early June 2002.

05/21/2002 – Hinz presenting at the Global Petroleum Show, June 11-13.

Hinz will be presenting the "New Control System Paradigm," June 12th from 2:00 to 2:30 PM in Theater 1. This presentation will show an example of the new Rockwell ProcessLogix distributed control system with the ControlLogix PLC and the Rockwell suite of industrial communications systems.

04/29/2002 – New Strawboard plant approaches final commissioning.

Parkland Strawboard of Kamsack, Saskatchewan is in the final stages of commissioning their new strawboard plant. The plant has been automated using a ThinkxnxDo soft PLC and Automation Direct Programmable Controllers. Hinz Automation provided all electrical and controls engineering for the project.

04/18/2002 – Here Today, Gone Tomorrow. New ProcessLogix DCS in Operation.

A Rockwell ProcessLogix DCS was shipped from the Hinz office in Edmonton last fall to the new Alchem plant in Manitoba. Now in operation, the new control system is a hybrid with both DCS and PLC controllers in the same system.

Hinz developed PLC and DCS configurations. Hinz also provided all electrical and instrumentation design for the new plant.

04/09/2002 – Hinz increases OSB production efficiency at Louisiana Pacific

The Louisiana Pacific (LP) Swan Valley plant is one of the highest producing plants in all of the LP Corporation, and also holds the record for the longest period with no accidents on site. This plant uses 900,000 cubic metres of wood and produces 310,000 tonnes of oriented strand board annually. Oriented strand board (OSB) is manufactured by combining wood chips with wax and resins under high heat and pressure. OSB is usually marketed in sheets, similar to plywood. LP uses mainly WonderWare HMI and Modicon Quantum PLCs in their process.

Historically, when changing the board sizes during a process run, the press operator had to change the mat weight set point for the forming line and the press recipe separately. Whenever the press recipe was changed, the operator was responsible for timing the press recipe change according to the mat weight change on the forming line. If the press recipe change was not timed correctly, the result would be several boards rejected or downgraded.

In order to minimize rejecting or downgrading boards, Hinz Automation Inc. automated recipe control of the forming line mat weight and the press recipe, thereby eliminating the need for operator intervention. Hinz upgraded the existing WonderWare application to allow the operator the same control over the press recipe set points. As well Hinz upgraded the existing PLC program to implement the automatic product recipe control, synchronizing the forming line mat weight to the press recipe.

Hinz also added the ability to track the mat weight of each individual board through the entire process to the board scale. Wonderware screens were added which display the current product recipe, the next product recipe, mat weight set point and the actual mat weight as the boards make their way through the process.

04/02/2002 – Hinz now in Southern California

PRESS RELEASE

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Denver, Colo. – April 2, 2002

Hinz Automation Inc., a leading independent provider of automation and systems integration solutions for manufacturing and process industries, announced today the opening of a Southern California office to better support the company's project activities in that area. The office is located in Carlsbad, Calif. (approximately 25 miles north of downtown San Diego), and will serve as the sales and operations hub for Southern California projects and pursuits.

To support this initiative, Hinz Automation also announced Chris Chappell has joined the firm as Senior Account Manager for the new Southern California operation. Mr. Chappell brings over 19 years of experience in developing automation and controls systems for the Southern California market. Mr. Chappell comes to Hinz Automation from Real Enterprise Solutions where he was National Sales Manager. He has also held positions with Honeywell, Masoneilan, Pacific Gas & Electric and Bechtel.

The addition of Mr. Chappell will continue to strengthen our Hinz position as an international leader in systems integration solutions,x stated Ed Grimm, President of US Operations for Hinz Automation.

The San Diego office has an initial complement of experienced Hinz Automation Project Engineers and support staff in addition to Mr. Chappell, and is currently hiring additional staff. The office complements a recent expansion of Hinz Automation facilities in Northern California, located in Antioch (Bay Area). The Bay Area office is headed up by Mr. Darrell Dusenbury.

The addition of this new office gives Hinz a local presence designed to better serve our Southern California clients,x Grimm stated.

Hinz Automation provides systems consulting and integration for clients in a wide range of manufacturing and process industries. Located in 11 offices throughout the US and Canada, Hinz Automation. has a staff of approximately 200 technical personnel.

03/19/2002 – Hinz is attending the ISA Edmonton tradeshow.

Mark your calendar and come and visit us at the Regional ISA show in Edmonton, Alberta, April 10th & 11th. Our booth will be #I8. If you need passes please contact your local Hinz office.

The regional ISA site can be found here: www.isa-alberta.org

03/13/2002 – Hinz Enterprise Solutions (HES) website on-line

Effective immediately, the Hinz Enterprise Solutions website will begin operation. While still under construction, you may check for daily updates and new features.

HES is an international information technology business solution consulting, software, and application integration firm providing creative, innovative Information Technology Business Intelligence Solutions for our clients.

03/12/2002 – Placer Dome project writeup by Schneider

"Placer Dome assisted into the new millennium by Hinz Automation", read the write up in the Schneider Electric's magazine. In 1999 Hinz replaced the Rosemount DCS and Comdale HMIs at the South Porcupine, ON Mine with state of the art Modicon Quantum PLCs and Wonderware Operator Interfaces. The system architecture utilizes the Ethernet capabilities of the PLCs to provide seamless integration. [Click Here](#) to view the article on Schneider Canada's website.

02/18/2002 – Keith Lien appointed Vancouver BD Manager

Hinz Automation is pleased to announce the appointment of Keith Lien to the position of Business Development Manager for the Hinz Vancouver office. Prior to joining Hinz Automation, Keith Lien left a successful career as the Industrial Sales Manager of Westburne B.C. where he headed the Automation and Controls Group as well as the rest of the Industrial Business. Prior to his joining Westburne, Keith also served as the Industrial Manager for Gescan, Western Canada. Keith began his career in 1975 with Canadian General Electric.

Keith holds numerous diplomas and certifications in Business and Marketing management as well and Automation and Controls. His post graduate studies were done at CNC, Prince George and BCIT in Burnaby, in addition Keith holds Sales Training and Management Training, Instructor Certifications from Delaine Consulting, Dale Carnegie & Associates, Learning International and GE University in the USA.

His experience includes senior management positions with Tier 1 national distributors, a member of several Rockwell Automation advisory boards, consulting with distributors and large Industrial customers, launching new products, strategic planning, channel management, supply chain management and a recently developed Automation Introductory Training program for distributors and users.

Keith is married with two children and resides in Pitt Meadows B.C.

01/23/2002 – BP Gets a New ProcessLogix DCS

Rockwell Automation and Hinz Automation are configuring a new ProcessLogix DCS for the BP facility in Fort Saskatchewan, Alberta. After studying the offerings of several DCS vendors BP selected a Rockwell ProcessLogix DCS for their plant control system upgrade. This is the second Rockwell ProcessLogix system engineered in Canada. (The first was for Albchem in Manitoba.)

The BP plant is located in Fort Saskatchewan, about 30 minutes northeast of Edmonton. The plant is fed by several liquids pipelines and provides liquids processing and cavern storage. BP is a premier petroleum and gas supplier worldwide.

The ProcessLogix is a Hybrid DCS/PLC system and uses the same racks, power supplies, I/O and networking as the Rockwell Control Logix PLC system. The Control Logix PLC is the successor to the Rockwell Automation, Allen-Bradley PLC-5 systems, which is the

incumbent PLC system on the BP site. The new system will replace the old DCS and will interface to the existing PLC-5 controllers. The new ProcessLogix will link into operator interfaces using Ethernet or Control Net gateways.

The pictures show the new DCS in the Rockwell lab in Edmonton being configured and tested prior to shipment to site. The plant cutover to the new system will be done over the next year to enable thorough testing and operator training. The new system will be tied to a Pi server in the BP control center.

01/14/2002 – Hinz Awarded Shell Sarnia & Montreal Gasoline Hydro Treater Safety System Projects

Shell Canada and Bantrel Inc. has subcontracted Hinz Automation Inc. to provide the Shell Sarnia and Shell Montreal Gasoline Hydro Treater Safety Systems, for implementation in 2002.

Building on Hinz Automation's past successes, most recently for a Boiler Safety Shutdown System for Shell Canada at their Sarnia Manufacturing Center, (see <http://www.gefanuc.com/literature/pdf/emergency.pdf>), Hinz has been asked to implement two new GE GENIUS Modular Redundancy Systems. These projects will follow many of the Shell safety system standards that Hinz has been instrumental in spear heading as the common design for many Shell safety-critical installations.

Each project consists of the specification, programming, installation, and commissioning of dual GE FANUC 90-70 programmable logic controllers, individually controlling a Genius I/O subsystem of voted and no-voted inputs.

Key to Hinz's design is the implementation of proven-in-use application-level diagnostics that add an additional layer of integrity.

Also important in the project life cycle of any safety instrumented system (SIS) is the creation of a Safety Requirements Specification (SRS), as per ANSI/ISA S84.01-1996 "Application of Safety Instrumented Systems for the Process Industries" and draft IEC 61511 "Functional Safety Instrumented Systems for the Process Sector - Part 1 General Framework, Definition, System Software and Hardware Requirements". A detailed and comprehensive SRS is a key element to a good software engineering design and a critical first step in capturing technical, business and industry requirements for traceability to test procedures and risk management strategies.

01/15/2002 – Hinz Awarded integration portion of Syncrude UE-1 project

Hinz Automation Inc has been awarded the integration portion of the supply of the Electrical Buildings for the UE-1 project. The scope of supply includes PLC and HMI programming and supply of the control panels. This project sees an extensive use of DeviceNet communications with the Rockwell Automation Motor Control Centres. There

is in excess of twenty buildings to be delivered over the next year and a half. Our partners in this endeavor are ABB and Rockwell Automation.