

IN THIS ISSUE:

President's Perspective |
Green Solutions | Zeroing
In On Safety | Second
Story | Did You Know |
Employee Spotlight

HARRISHORIZONS

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PLUMBING | PROCESS PIPING | HVAC | REFRIGERATION | CONTROLS | SERVICE | CONVEYORS | ENERGY SOLUTIONS



deep impact

Going "Green" at the St. Cloud
Municipal Athletic Complex

The well-field for the GeoExchange system was installed under the existing parking lot and consists of more than 6500' of vertical boreholes.

In a time of tight budgets and soaring energy costs, the St. Cloud Municipal Athletic Center in St. Cloud, MN has found a way to go "green" and save taxpayer dollars in the process. With the installation of a new GeoExchange System, the MAC uses the earth to maintain the arena ice and heat their facility. By installing this sustainable technology, the MAC will reduce gas usage by 95% and electric usage by 30%. Nearly 4,000,000 gallons of water usage will be eliminated along with the yearly elimination of 300,000 pounds of green house gases.

The MAC has two arenas. The Torrey Arena is original to the facility and was installed in 1972. The second arena, the Ritsche Arena, was installed in 1997. The Torrey arena was not operating efficiently and needed mechanical repair. In addition, the original arena floor was built using galvanized piping that circulated brine through the floor, eventually causing severe degradation in heat transfer and efficiency. The MAC staff felt that they could justify a chiller replacement with energy savings but did not think the floor could be replaced due to budget constraints.

Harris Companies met with the arena staff and conducted a preliminary review of the facility and found that the project, including the new floor, would be possible. The final

contract was approved by the City Council and signed in early June. Demolition started immediately on the Torrey arena floor and chiller room. The new floor was installed and skating resumed in late September, while the remainder of the project was completed in November.

The heart of the new mechanical installation is the TRAK International GeoExchange Ground Source Heat Pump System. The system has four (60) ton heat pumps dedicated to the Source Loop providing chilled glycol for the arena floors and two (60) ton heat pumps dedicated to the Load Loop that provides hot water that is integrated into the existing hot water and domestic hot water systems.

The system was custom designed by TRAK International, a division of Harris, to meet the needs of both ice rinks. The Ritsche Arena (1997) chiller system was left in place, but tied into the new TRAK system so that it could remain as a back-up system and provide additional capacity if needed during peak load conditions. There are other arenas that use geothermal, but this is the only one that captures the waste heat generated and raises the temperature to allow for the elimination of all other heating sources, such as boilers or domestic water heaters.

The MAC staff now has a high-performance "green" arena with a new arena floor in the Torrey Arena, a high efficiency GeoExchange "chiller plant", a new web enabled and integrated building automation system (BAS) installed by Harris Controls, and improved system operation.

The new system will save enough electricity to power over 30 homes, enough gas to heat over 80 homes and reduce green house gas emissions by an amount equal to the removal of more than 100 cars from the road each year. In addition to the energy savings and reduction in water and gases, the project will pay for itself within 15 years and create a positive cash flow by year seven. ♻️

who's involved: Harris Companies

Owner: **City of St. Cloud**
General Contractor: **Harris Companies**
Project Manager: **Bob Swanger**
Engineer: **TRAK International**
Superintendent: **Scott Parkos**



PRESIDENT'S PERSPECTIVE

That things are very uncertain is about all I am certain of in today's economic climate. Experts argue not so much about will there be a recession, but more when it will (or did) start, how long it will last, and how severe it will be.

In times like today, it's hard not to ask "how does the current economic condition affect our business," and "are our long-term strategies still appropriate?"

One of the luxuries we have in the construction business is a concept called backlog, a measure of work under contract, but not yet completed. This measure gives us good insight into the next nine to twelve months of revenues for our company, and allows us to better plan for the future. The good news is that our backlog is at an historic high, though the areas of the country that comprise that backlog have changed somewhat.

Even with a solid backlog, it would be arrogant to think that our industry, and more specifically our business, will be unaffected by the turmoil in the economy. Already we have seen projects that were set to start be delayed, sometimes indefinitely. Times like this require that we return to the basics of what makes us successful in the business. We must eliminate any wasteful spending, work hard to conserve cash, and above all stay even closer to our customers.

Fortunately I believe our long-term strategies have prepared us well for this downturn. Geographic diversity and a willingness to travel to meet our customer's needs provide opportunities we otherwise wouldn't see. When new buildings aren't being built the need for maintenance and retrofit increases, our service and preventive maintenance initiatives position us well for this trend. Our focus on Building Information Modeling and prefabrication clearly matches well with an environment intent on cost reduction and efficiency.

Energy and sustainability perhaps positions us most effectively for a changing environment (no pun intended). I hold this belief for two reasons. The first is that we have an ability to reduce our customers operating costs in their facility. Second is that Green and Sustainable construction continues to be a larger share of the market, and I don't believe US organizations will abandon this movement in response to short-term economic conditions.

There is no question we will see challenges over the next couple of years, but focusing on those things that have made us successful in the past, and trusting our long-term direction will get us through as a stronger and better company! ♣

GREEN SOLUTIONS

Conservation and sustainability was the Harris theme for 2008. To support this goal, many of our employees have become LEED (Leadership in Energy and Environmental Design) Accredited Professionals. To date, we have 35 LEED APs on staff and several more in training. This accreditation has enabled our employees to demonstrate their ability to apply the LEED Rating System to several of our projects, and also to demonstrate their commitment to improving the built environment. Their knowledge has increased peer and customer awareness of high performance building benefits as well as the capacity to achieve them.

The LEED Accredited Professional exam consists of 80 multiple choice questions, and is scored on a scale of 125 to 200, with a score of 170 required to pass. We would like to congratulate everyone that passed:

Harris - St. Paul

Alan Andert
Keela Bakken
Dave Bawek
Mike Biebl
Rawley Brodeen
Darrel Bugel
Dan Cebelinski
Paul Eichler
Marc Frank
Ryan Gjestvang
Dan Goldston
Greg Goodlund
Greg Hosch
John Krhin
Chuck Leach
Nick Rosenberry
Chuck Schmaltz

Brandon Schmidt
Kurt Schonecker
Johnnie Sphuler
Mike Stillman
Randy Stewart
Bob Swanger
Todd Thiele
Kevin Zwiefelhofer

Harris
Intermountain
Frank Dorhofer

HiMEC
Chad Bestor
Greg Donley
Aaron Einck
Jon Ewing

Brian Lisovskis
Greg Pumper

Superior
Randy Richter
Tony Rieth

TRAK
Steve Lutz

35
and counting!

ZEROING IN ON SAFETY

Everywhere you look, drivers have a cell phone growing out their ear. It may be convenient to make or take calls from your vehicle, but taking your eyes off the road for even a second can result in serious injury or even death. If you must use your cell phone while in your vehicle, here are a few safety tips to follow:

- Abstain from talking on a cell phone while you are actively driving.
- If you need to answer a call or make one, pull off the road into a safe parking area.
- Make sure your phone is within easy reach, not in the glove compartment or a purse where you might have to dig for it.
- Use a hands-free device like a Bluetooth headset or earpiece that allows you to talk while both hands remain on the wheel.
- Hands-free or not, postpone conversations that are either emotional or complex.
- Do not send a text message, IM or try and read incoming messages while driving.
- Use your cell phone only in the event of an emergency in which you need help or someone else needs help.
- Do not take notes or look up phone numbers while driving.



Following these easy tips can make you a better driver, resulting in safer roads for you and your family. ♣

SECOND STORY

HiMEC - Rochester, MN

Cargill Smokehouse and Blast Freezer Renovation (Albert Lea, MN) - Larson Contracting out of Lake Mills, Iowa was awarded a contract with Cargill Foods with HiMEC as the Mechanical subcontractor. The original Scope of Work consisted of demolition of existing Smokehouses and Blast Freezers and installation of new Smokehouses and Blast Freezers. Since the original award, HiMEC's scope of work has been increased with the approval of adding an Ammonia Compressor. Kevin Zwiefelhofer (project engineer) and Scott Parkos (ammonia refrigeration service technician) working out of the Harris St. Paul office, have been working very closely with the customer in providing design and engineering recommendations which will increase capacity, improve efficiencies and reduce overall operating expenses and system downtime. Ron Voigt (project manager) anticipates the addition of more facility improvements, which include upsizing ammonia vessels, and improvements to HVAC systems. Pipefitter Foremen Rob Haglund and Dan Blazer have been working hand in hand with Scott Parkos in providing the Ammonia piping requirements, steam piping and other required utility changes to accommodate the new Smokehouses and Blast Cells. This project is utilizing personnel from the St. Paul and Rochester offices, forming a team that has proven to be highly successful in providing excellent workmanship, customer solutions and satisfaction.

Harris Mechanical Southwest - Phoenix, AZ

CAP Pumping Stations Chiller Replacement (Various Locations, AZ) -

Harris Mechanical Southwest is the prime contractor for the Central Arizona Project Pumping Stations Chiller Replacement Project. CAP is a leader in the management and delivery of Colorado River water to Central Arizona cities, Indian communities and agricultural subcontractors. It is a 336-mile long system of aqueducts, tunnels, pumping plants and pipelines and is the largest single resource of renewable water supplies in the state of Arizona. The pumping plants were constructed in the mid-1980's and CAP is methodically replacing mechanical systems at the various plants to ensure that they can continue to supply water to their customers without interruption. Project scope includes the demolition of existing chillers, pumps, piping, electrical and controls; installation of exterior chiller foundation pads, new chillers and chilled water pumps, and new electrical systems; replacement of controls on existing HVAC systems, new chiller and pump controls and a building automation system. Harris worked extensively with CAP technical personnel to ensure that the installation being provided was consistent with their objectives. As these pumping plants are operating plants, intensive coordination of construction activities with plant operations was necessary to prevent unintended disruption of CAP's ability to deliver water. The replacement of HVAC cooling equipment is part of the long-term updating program. These systems provide critical environmental cooling necessary for the key CAP pumping equipment.



Colorado River

Harris Mechanical Intermountain - Salt Lake City, UT

Mountain America Credit Union Office Annex (West Jordan, UT) - After outgrowing their current facility, Mountain America decided to build a new facility to house the Training, Human Resources and Marketing/Sales departments. Ground broke for the 150,000 square foot annex on May 8, 2008. Harris Intermountain is providing complete mechanical, temperature controls, insulation and chemical water treatment. Frank Dorhofer is the principal-in-charge and George Dewey is the project manager. Foremen for the project are Nick Parrish (plumbing) and Steve Benvegnu (piping). The four-story building will be completed in late 2009.

Superior Air Handling - Clearfield, UT

Veteran Administration Medical Center (Las Vegas, NV) - Superior is working directly with Clark/Hunt, the general contractor, on this 30-month project. Job site trailers were positioned on-site the second week of December and detailing contract drawings have begun. The team includes Craig Mickelson (senior project manager) and Keith Sweepe (lead superintendent). Craig is currently managing the Koloa Landing project in Kauai, Hawaii. He will return to the Mainland to take over the responsibility of managing this 1.5 million pound plus sheet metal project. Crew size in the field should be at 30 or more by April 2009. **Patient Care Facility/University of Kentucky (Lexington, KY)** - Mobilizing for this project began during the second week in December 2008 and the installation of ductwork hangers is scheduled to start this month. Project team includes Steve Low (senior project manager), Bob Dickamore (field foreman) and Allan Logan (team leader). Recently Steve, Bob, and Allan completed a project in Oakridge, TN. Their continued team success is expected on this sheet metal project with a duration of 24 months. **DPR Construction (California)** - Superior is working with the DPR Construction Team on creating engineered drawings during the pre-construction phase for three major hospitals in California: Merrit Tower Alta Bates; Eden Medical Center; and Sequoia Hospital. Zach Sargent heads the Hospital Development Team with support from James Pitre Williams, Steve Wood and the entire Engineering Team.

TRAK International - St. Paul, MN & Kelowna, BC

St. Joseph's Catholic Church Education Center (Rosemount, MN) - TRAK International/Harris Special Projects is providing mechanical design/build services for a 44,000 sq ft. addition (K-8 school) to their existing sanctuary and office space. TRAK is finishing the design of the GeoExchange mechanical system that will be installed over the coming months. Sixty boreholes will be drilled this spring. This 120-ton ground source water-to-water heat pump system will provide heating and cooling for the new addition. Taps will be provided to cross connect their existing mechanical system in the future to supplement their current heating and cooling needs. Completion is scheduled for late summer of 2009.

DidYou Know

Harris Controls was recently awarded the contracts to provide KMC Control systems for two new construction projects at **St. John's University** in Colleagueville, MN. The Flynttown Student Housing project is a living facility constructed as part of the University's goal of providing housing options for all students. The Flynttown Community Center is Harris Controls second LEED Certified project. The Community Center is expected to meet LEED Silver requirements and will feature a monitor to provide students, staff, and visitors the opportunity to see facility energy consumption trends and monitor HVAC equipment operation.

Harris Mechanical welcomes **Mike Stillman** to our construction team in St. Paul, MN. With 30-years in the industry, Mike has significant management and leadership experience to leverage as Harris Mechanical grows its St. Paul construction operations.

Along with the addition of Mike, Harris Mechanical has realigned its St. Paul construction operations into four (4) business groups: Commercial (Mike Stillman, VP), Special Projects (Randy Stewart, VP), Industrial (Rob Latta, VP) and Health Care (Greg Goodlund, VP).

Darrel Bugel has been promoted to senior vice-president, Harris Mechanical, and will oversee all St. Paul construction operations. 

For information on our projects, go to www.hmcc.com.





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EMPLOYEE SPOTLIGHT

Mike Stillman

Vice President - Commercial

Mike is a 30-year veteran of the mechanical contracting industry with experience from designer, estimator, project management, and sales to building a sheet metal division. As Vice President of Commercial Construction, Mike is looking forward to working with and building an even stronger team of PM's and PE's. He will be involved "with marketing the entire range of services that all of Harris Companies has to offer" to existing and new customers. Mike is eager to learn more about TRAK Geothermal systems and industrial projects. He looks forward to "learning and growing along with Harris Companies" and getting to know the staff.



After high school in Shakopee, Mike went on to Dunwoody Institute and completed their two-year HVAC design course. Mike married his high school sweetheart, Margaret. They have been married for 31 years and have two children, Megan (21) and Mason (18). Father and daughter like to shoot clays and father and son like to fish (deep sea or Canadian). When not driving fast cars or fast boats, Mike enjoys soaking up the sun with a good book. He and his wife enjoy entertaining friends and their large extended family. Margaret has 10 brothers and sisters! Mike is a cook and red wine connoisseur. ♡

Maureen Herzog

Controller - Harris Companies

Maureen joined the Harris family in October of 2008 as controller. Maureen is responsible for the monthly financial statements and other financial reporting. She works closely with the accounting department and the CFO.



The construction industry is nothing new to Maureen. For the past 15 years she has worked with companies involved in recreational land development, homebuilding, property management and mortgage brokerage.

With the help of everyone in the accounting area, Maureen is quickly learning the Harris systems and accounting process. She is grateful for all the assistance she has received and is looking forward to the challenges of learning more about "the various company's processes and goals".

Maureen has a Bachelor of Science degree in accounting from St. Cloud State University. In her spare time, Maureen and her husband John are busy going to their sons, Sam and Max, sporting events. They also enjoy family time at the lake. ♡