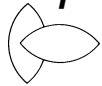


The Metropolitan Update

**Metropolitan
Industries, Inc.**

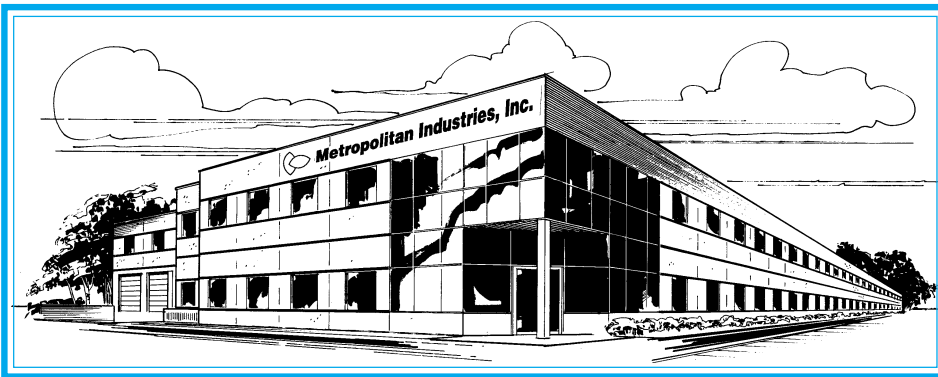


1400 Bluff Road, Romeoville, IL 60446
Telephone: 630-972-9400 • Outside IL: 800-323-1665 • Fax: 630-972-9594

VOLUME 3, NUMBER 1

SUMMER 1997

LATE 1997 MOVE INTO NEW FACILITY CAPS SOLID METROPOLITAN YEAR



Metropolitan Industries, Inc. is literally on the move as we approach the fourth quarter of 1997. In early September we will be relocating down the road into a new 50,000 square foot facility situated on five acres in the Romeoville Business Park. Our new address will be:

37 Forestwood Drive
Romeoville, IL 60446

Our telephone and fax numbers will remain the same — only now our service will be even better.

The new facility is approximately twice the size of our present headquarters with expansion capabilities to over 100,000 square feet. It proved to be a satisfying necessity due to:

- The continued overall growth of Metropolitan Industries
- Our ever-expanding in-house electronics and specialty products design, development and manufacturing

- Pressing demands for increased inventory space to maintain a greater range of products for more timely deliveries

The facility features an integral 2,000 square foot conference and training center with moveable interior wall dividers to create small and large meeting areas for both company and client requirements. A new, state-of-the-art ten ton overhead crane spans our service and manufacturing centers. And we have allocated much-needed room for parking over 100 cars. Needless to say we plan on adding additional staff with responsibilities in all areas of operation as we look to the twenty first century.

An Octoberfest OPEN HOUSE is being targeted for October of this year. We will be in touch with you with details.

INTRODUCING OUR NEW VICE PRESIDENT

Diane Ahrendt was named Vice President of Metropolitan Industries in May. Diane joined us in 1980 and has functioned as Office Manager/Comptroller since 1986. Her dedication and hard work in the management of the financial and human resources aspects of our organization as well as our day-to-day general operations has contributed substantially to our rapid growth and we congratulate Diane on her promotion.

JOIN US AT THE WEF SHOW

Metropolitan Industries will be represented at the Water Environment Federation Show to be held October 18-22 in Chicago's McCormick Place. Visit us at Booth #3335 where we will be displaying our new LMS 400 Level Management System, The Metro-Protector Motor Protection Device, custom SCADA Systems, Break Tank Systems, Packaged Water Pressure Booster Systems, auxiliary power supplies, custom controls and more. We hope to see you there!

Sincerely,
Metropolitan Industries, Inc.

John Kochan, Jr.
President

SCADA SYMBOLIZES METROPOLITAN SINGLE SOURCE RESPONSIBILITY

Four recent, complex water distribution system projects in two states aptly and aptly demonstrate the single source capabilities of SCADA (Supervisory Control & Data Acquisition System) from Metropolitan Equipment and the important single source responsibility that Metropolitan offers you. Outside of the flexible control that Metropolitan provides through SCADA, a common thread for all four installations was the utilization of phone lines through local Ameritech switching offices as the communication choice, due to the relatively small geographic areas under consideration.

WINFIELD, IL

Engineer: Rempe/Sharpe (Geneva, IL)

Project Engineer: Dan Watson

Water Operator: Bob Orlando

Description: The installation of a new North Pumping Station and "point of connection" for Lake Michigan water prompted the development of an overall integrated control system for the town of Winfield. The SCADA is composed of a Pentium computer



Monitor pump reservoirs, valve vaults, overhead tanks, sewage lift stations, etc., all from a remote location.

system and Web software within the Winfield Public Works Building as the main monitoring station with an identical duplicate system at the Garfield Pumping Station. The SCADA is linked to Winfield's three

well sites (backups to the lake water), a sanitary lift station pumping to the city of West Chicago, IL (which receives and treats Winfield's waste water) and the town's water tower — the main control point for water distribution. The use of an additional portable laptop computer enables remote monitoring of the system to permit changes to control elements if required, potentially avoiding many hours of overtime and providing significant dollar savings in other areas as well.

LOCKPORT, IL

Engineer: Consoer Townsend/Envirodyne (Chicago, IL)

Project Engineer: Steve Wreszinski

City Manager: Larry McCasland

Description: The Lockport water distribution and waste water collection system was installed in 1995 and features a waste water treatment plant, two sanitary lift stations, four wells, three water pumping stations, three pressure reducing valves, one standpipe/reservoir, and one elevated storage tank. Metropolitan Equipment was enlisted to tie this complex system together with reliable SCADA control, monitoring and record keeping. A single master computer (along with a complete backup system) utilizing Control Microsystems hardware and Web software is located at the waste water treatment plant. Several remote stations with "touch screen" type operator interfaces duplicate the system graphics, with full monitoring and control capabilities. Other sites including the elevated storage tank simply serve as monitors. A future waste water plant expansion with an accompanying upgraded and expanded SCADA has been planned.

MICHIGAN CITY, IN

Engineer: Greeley & Hansen (Chicago, IL and Indianapolis, IN)

Project Engineer: Stan Diamond

Filtration Plant Operator: Bob Rogers
The North Pumping Building of Michigan City houses a water filtration plant that treats and distributes Lake Michigan water. The complete Michigan City operation consists of four chemical feed



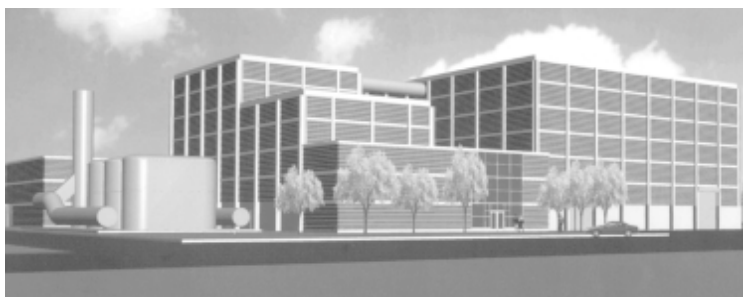
No limits on application size or type. System allows you to remotely change equipment operation, sequencing, pressure operation, flow operating, etc.; via modem, radio or cellular communication link.

systems, a six-pump "low-lift" raw water intake pump station, three elevated water storage tanks, a remote booster pumping station and a storage reservoir. The chemical feed systems for alum, fluoride, ammonia and chlorine each include chemical tanks, feed pumps, transfer pumps, chlorinators, and level monitors. Metropolitan Equipment installed a master SCADA utilizing Modicon hardware and Intellution software within the North Pumping Building to centrally control and monitor the entire operation. The SCADA generates reports, serves as an archive file and also receives manual data entry from log sheets. The remote pumping station/storage reservoir had employed a telemetry panel that reported status; the SCADA replaced this with control and graphic capabilities.

Continued on back page

WHERE THERE'S **FIRE** ...there's Metropolitan

Imagine a very large warehouse 120 feet by 120 feet by 55 feet high in an industrial-type complex. The warehouse features a state-of-the-art fire suppression system. It's a warehouse stocked with valuable merchandise.



Underwriters Laboratories Inc., Northbrook, Illinois

Then imagine a trained employee entering that large room and torching it. A team of equally skilled and dedicated employees watch, document and study the results of the conflagration — with no intention to personally attempt to halt the devastation.

Sounds too hard to believe? It's all in a day's work at the Underwriters Laboratories Inc.'s new Large Scale Fire Testing facility in Northbrook, Illinois.

The UL 92,000 square foot complex is one of only two such facilities in the world, and years newer and more technologically advanced than its counterpart in Germany. It was created for sprinkler manufacturers, warehouse, code authorities and insurers to conduct efficient, cost-effective research and certification to determine the effectiveness of sprinkler systems in or near a specific storage arrangement, resulting from actual performance-based fire tests

Where there are fire suppression systems reliant on water, there is certain to be a dependable, high volume water pump and control system. Enter Metropolitan Pump. Working in tandem with the engineering firm of W.M.A. Consulting Engineers, we created the requisite

packaged pumping system. Metropolitan produced and tested a complete prefabricated skid for UL consisting of one high pressure and two low pressure pumps as well as all variable speed controls, piping and valves within our Romeoville headquarters. This prefabricated skid, housed in a pump room, is



Left to right: Debbie Zentmyer, local Communications Asst. U.L.; Ken Cutler, Chief Plumbing Engineer; Larry Gesiakowski, V.P. WMA Associates; Ray Komorowski, Fire Protection Engineer; Mark Brickey, Metropolitan Pump

linked to UL's 183,000 gallon water supply reservoir and 150,000 gallon water storage facility and to the testing room.

The high pressure unit is a 750 gpm, 300 psi submersible turbine pump rated at 125 hp. The two low pressure units are each 3,000 gpm at 170 psi split case 400 hp pumps. The Metropolitan system is capable

of producing 3,000 gpm in a short period of time. UL routinely operates the system at 5,000 gpm and has achieved 6,000 gpm maximums.

Metropolitan also furnished the state-of-the-art computer instrumentation for the system. From a centralized

control room, operators can view infrared, video and data images of the test and, if necessary, can activate supplemental extinguishing systems. Data includes when the sprinklers activate and at what temperature, the fire plume velocity and the radiated heat. This information is displayed additionally in a client observation room.

The large scale testing room features poured concrete walls with stainless steel paneling; insulated steel building panels cover the fixed ceiling. The room is also equipped with a unique 100 foot square moveable ceiling that can be adjusted from five to 48 feet high using hydraulics similar to those found on aircraft carriers to move decks up and down. The west and north walls employ pressure relief panels designed to render relief in the event of explosions.

The UL certification Mark provides the most widely accepted evidence of a product's compliance with recognized safety requirements in the United States. Metropolitan Industries is proud of the part we play in the certification process which has earned us a practical — if invisible — UL Mark for efficient, reliable performance.

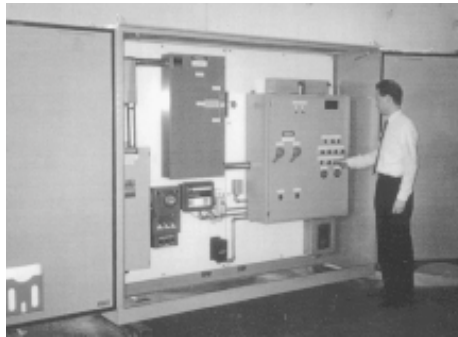
Metropolitan Industries, Inc.

1400 Bluff Road
Romeoville, IL 60446



For superior security and protection against vandalism and the forces of nature combined with a neat, aesthetic appeal, you can depend on an outdoor control box custom designed for you by Metropolitan Equipment Company.

Traffic Boxes



A Metropolitan traffic box includes all requisite components such as simple and VFD motor controls, SCADA/telemetry and switchgear. The box is highly effective for HVAC applications as well.

Traffic boxes are manufactured from standard steel, stainless steel, aluminum or a range of other materials, from three to ten or more feet wide, and with a single door or multiple doors, to satisfy your exact requirements.

Metropolitan Equipment Company offers you single source responsibility for the design, manufacture, installation and service of industrial controls, basic control panels and sophisticated control systems. Contact your Metropolitan Equipment representative for information.

SCADA continued

MUNSTER, IN

Engineer: R.W. Robinson (South Holland, IL)

Project Engineer: Russ Prekwas
Water Superintendent: Gerald Andrisko

Munster's water distribution system receives its water supply from the city of Hammond through three meter vaults to the two main pumping stations, which, in turn, pump three overhead storage tanks. The SCADA (Control

Microsystems hardware and Web software) is located in the Public Works Center and handles the control, monitoring and archiving for the system. Both the River Bend and Calumet Pump Stations have identical computers with "touch screen" type operator interfaces as system backups. In addition, three public works employees can monitor the system in their homes through computers with keyboards provided for them. Metropolitan's

role at Munster was extensive, as part of a complete overhaul of the two pump stations we provided seven new split-case pumps, motor control centers, variable frequency drives, a standby generator, and related accessories. The Munster SCADA is particularly flexible because it affords village personnel monitoring (and, in many cases, control and adjustment capabilities) from the office, on-site and in the home.