Spring, 2002 Issue No. 6

EPG CONNECTION

Your Resource For Environmental Pollution Solutions!

IN THIS ISSUE

Page 2

Sales Rep Highlight

Type "2" Coordinated Protection

Page 3

Sump Drainer History

EPG People

Page 4

Product Highlights

EPG Companies will be at Waste Expo 2002

EPG COMPANIES INC.
P.O. BOX 427
ROGERS, MN 55374
Phone (763) 424-2613
800-443-7426
Fax (763) 493-4812
www.epgco.com

Another Graduating Class

EPG Companies Inc. would like to thank everyone who attended the 2002 Leachate Pumps & Controls School which was held March 13th-15th at EPG headquarters in Rogers, Minnesota.

We were pleased with the response to this year's service school which was filled to capacity. The school consisted of a total 25 attendees coming from 11 different states across the U.S. and one attendee traveled all the way from Guam to attend.

The unfortunate side of having a classroom filled to capacity is that some people who wanted to attend had to be turned away.

Following is what a few of the attendees had to say about their experience at the 2002 Leachate Pumps & Controls School.

"The course materials exceeded my expectations and instruction was very good. Clear presentation and control panel setups made for a very worthwhile experience. Overall, an excellent class with a lot of material covered and well presented over three days. Thank you!"
—Landfill Consultant, Minnesota

"The hands-on part of the class was great! The "real world" sidebar problem discussions were good - passing on findings in the field is very helpful and interesting. I was impressed with the knowledge of the EPG personnel involved with the school. I now have a much better understanding of EPG leachate pumping systems. Thanks for the hospitality."
—Engineer, Minnesota

"I enjoyed the hands-on control panel work, and being able to ask as many questions as needed. Overall, I was glad I attended the school, it was well organized and I feel I am taking a lot of knowledge for every day use home with me. Thanks for the opportunity."
—Landfill Operator, North Dakota

"The hands-on with the control panels was very helpful. They answered most of the questions I had without even having to ask them. Being someone who has not had the experience of tearing one of the pumps down, I found that at the end of the day I would not hesitate to do so now."
—Landfill Operator, Iowa

"EPG takes the time to inform and educate their customers. Great job, keep it up."
—Technician, Guam

If you have a current application or would like more information about EPG products and capabilities, please call us at 800-443-7426, fax us at (763) 493-4812, or e-mail us at info@epgco.com.

Sales Representative Highlight

HTM Sales Inc. was founded in 1970 by Hugh Thomas McGill and has been selling and servicing Municipal, Industrial, Environmental, and Power Plant equipment ever since.

In the mid 1990's the landfill sites began growing in this area and after numerous attempts to come up with a quality leachate pump, we finally hooked up with EPG Companies in 1996 and have been representing them ever since. We have had a very successful relationship with EPG over the years and have attended their Leachate Pumps and Controls School which is excellent.

HTM Sales also sells grinding equipment, flowmeters, sewage pumps, effluent pumps, grinder pumps, aerators, mixers, packaged pump stations, progressive cavity pumps, radio controls, telephone auto dialers, chlorination equipment, and vertical turbine pumps.

We currently have six employees. Kevin McGill - President & Treasurer with a College Degree in Electronics Technology,

Cheryl McGill - Vice President & Secretary with twenty years experience as legal secretary and office manager, Alice Taylor - Secretary with twenty plus years experience in government sales, Tom Thierolf P.E. with BSEE from Cal. State University and twenty plus years experience with plumbing, construction, and maintenance supervision, Patrick MacBride with M.S. in Civil Engineering and B.S. in Electrical Engineering, and Roger Pike - Service Manager with ten plus years maintenance experience as well as factory training from HTM vendors.

We have substantial stock in Omaha for the markets which we cover. We cover the states of Iowa and Nebraska for most of our product lines.

Our employees attend the factory training/service schools and are cross trained by product lines. We have service available 24 hours if needed. Our local phone number is (402) 935-0300, our Fax number is (402) 935-0301, and our Toll Free number is (800) 444-1625.

Type "2" Coordinated Protection

The International Electrotechnical Commission (IEC) standard for motor starters and contactors, 947-4-1, defines two levels of component protection in the event of a short circuit. Definitions of the two levels of component protection are as follows:

Type "1" Coordination -

> *"under short circuit conditions, the contactor or starter shall cause no danger to person or installation and may not be suitable for further service without repair and replacement of parts."*

Type "2" Coordination -

> *"under short circuit conditions, the contactor or starter shall cause no danger to person or installation and shall be suitable for further use. The risk of contact welding is recognized, in which case the manufacturer shall indicate the measures to be taken in regards to the maintenance of the equipment."*

Type "2" coordination can not be achieved with the use of circuit breakers. Type "2" coordination is achieved only with the use of a properly selected fuse that is UL Listed or CSA Certified.

Type "2" coordination provides users and specifiers of motor controllers with benefits throughout every stage of a project. These benefits include:

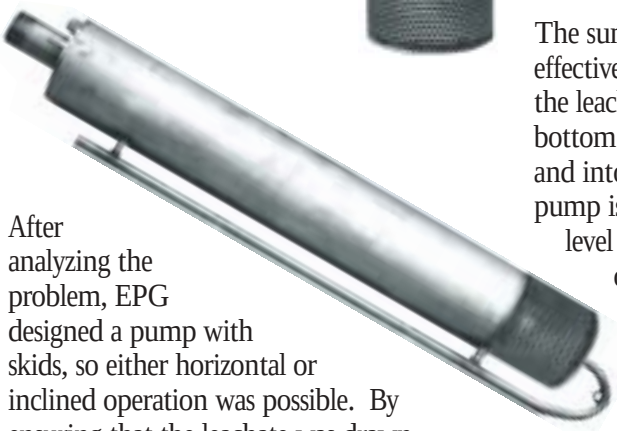
Increased Productivity / Less Downtime
In the event of a short circuit, the fuses can be replaced (once the cause of the short circuit has been corrected of course) and the starter returned to service after checking the contactor for tack welding of the contacts and separating them if necessary.

Reduced Component Replacement Costs
The cost of the fuses and the labor required to replace them is much less than the cost associated with repairing or replacing a starter.

Sump Drainer History

The origin of the EPG SurePump™ began during the early 1980's. The vertical sump drainer was originally developed for the remediation market to pump hydrocarbons. The innovative design allowed the vertical sump drainer to pump down farther than other pumps in the market.

EPG was approached by an engineer from Wisconsin in the late 1980's to find or develop a pump for a new landfill design that utilized side slope riser pipes in Indiana. This was in anticipation of more stringent regulations expected to take effect soon (Subtitle D).



After analyzing the problem, EPG designed a pump with skids, so either horizontal or inclined operation was possible. By ensuring that the leachate was drawn past the motor, EPG prevented the pump from overheating.

The design was used but complaints from the field said installing the pump was akin to "pushing a chain down the street". The design was rethought and four wheels were put at each end (90° spacing). This allowed the pump to roll easily down the riser pipe and into the sump.

These innovations led EPG to apply for and receive US Patents #4,966,534 and #4,992,030. These patents cover the level sensor mounted along the central axis of the sump drainer and the sump drainer supplied as a sealed unit.

The sump drainer design is simple, yet effective. Since the unit is sealed, all the leachate is drawn through the bottom intake screen, past the motor and into the pump's intake. The pump is controlled by a submersible level sensor that will turn the pump on and off by sensing the liquid level above the sensor. The sump drainer is equipped with a "vent valve" to vent any air present in the sump drainer and to prevent air lock.

EPG has always been sensitive to comments from the people who use the equipment. These comments have led to several improvements in the design. The first improvement was to replace the retainer clips with retainer pins to better hold the wheels on the axles. The next improvement added durability to the vent valve hose barb by changing it from nylon to stainless steel. Another improvement was to reinforce the wheel assemblies to better support the weight of larger pumps. We then increased the sump drainer wheel diameter for better clearance at HDPE welds in riser pipes. A small diameter Sump Drainer was developed for 6" PVC pipe applications. Finally new impellers were designed for better efficiency.

Coming in 2002: The new level sensor mount (Patent Pending) will permit removal and replacement of the sensor without dismantling the sump drainer.

EPG People...

Leo Ripplinger has been a part of EPG Companies' customer service department for the past six years. Leo is involved with testing and field service.

Leo has a degree from Northwest Electronics in Minneapolis, MN. He also has over 40 years experience in electrical, hydraulic, pneumatic, assembly and testing.

The highlight of his career was working with the engineering department at Honeywell, developing the "little black box" that is still being used in aircraft worldwide. He was also involved with designing, building, testing, and installing equipment for jet engine testing worldwide.

Leo's hobbies include golfing, fishing, and card playing. His most enjoyable pastime is his grandchildren.

Leo Ripplinger

Product Highlights

EPG manufactures their own motor leads from CP Cable made specifically for EPG. The CP jacketing material is more resistant to chemicals and abrasions than other types of lead cable. There are different sizes of cable available to make sure the correct voltage is supplied to the motor, whether it is a 4" or 6" motor application. Every motor lead is wet tested and meggered at the factory to ensure each motor lead is of the best possible quality. Our motor leads are currently used in installations around the world, so they have been time tested and field proven to withstand many years of use.

EPG's E-Wave™ is ideal for tank full applications. The advanced wireless technology sends discrete information digitally for relay logic control. The transmitter is wired to a contact at one location. When the contact changes, the transmitter sends a signal to the receiver, which turns a relay on or off. When the contact opens at the transmitter, the relay turns off in the receiver. The receiver can be wired to operate in a normally open or normally closed condition. A wireless tank full system is a cost effective way to control one or more tank filling operations. With the cost to bury signal cable, a run of 600 feet would pay for a wireless system.

If you see your name here call EPG by 5/31/02 to receive $25!
name 1: Mike Dysart name 2: John Wynne

EPG Upcoming Events

MAY 5-8	MAY 20-23	JUNE 17-19
NY Solid Waste Conference	*Waste Expo 2002*	*Landfill Symposium*
Bolton Landing, NY	*Las Vegas, NV*	*Louisville, KY*

P.O. BOX 427
ROGERS, MN 55374