



In Control! *Effective Management* *of Your Facility*

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What to do When Your CFL Bulb Burns Out or Breaks

By: **Whitney Wurzel, SCEO Public Information Coordinator** **SC Energy Office**

As compact fluorescent light bulbs (CFLs) become more popular, we must dispose of these energy-efficient lights safely and responsibly to make sure they continue working for the environment, not against it. Each CFL contains trace amounts of mercury, a toxic metal that is released into our environment when products with mercury are broken, disposed of improperly, or incinerated. Although the amount of mercury in a CFL is about the size of the period at the end of this sentence, each product containing mercury should be handled with care.

Ironically, CFLs present an opportunity to prevent mercury from entering our air, where it most affects our health. The highest source of mercury in our air comes from burning fossil fuels such as coal, the most common fuel used in the U.S. to produce electricity. According to the U.S. Environmental Protection Agency, a CFL uses 75% less energy than an incandescent bulb and lasts at least six times longer. A power plant will emit 10mg of mercury to produce the electricity to run an incandescent bulb compared to only 2.4 mg of mercury to run a CFL for the same time.



While CFLs for your home are not legally considered hazardous waste, it is still best for the environment to dispose of your CFL properly upon burnout. If recycling is not an option in your area, place the CFL in a sealed plastic bag and dispose the same way you would batteries, oil-based paint, and motor oil at your local Household Hazardous Waste (HHW) Collection Site. If your HHW Collection Site cannot accept CFLs, seal the CFL in a plastic bag and place it with your regular trash.

If a CFL breaks in your home, open nearby windows to disperse any vapor that may escape, carefully sweep up the fragments (do not use your hands) and wipe the area with a disposable paper towel to remove all glass fragments. Do not use a vacuum. Place all fragments in a sealed plastic bag and follow the disposal instructions above.

For more information, please visit the South Carolina Energy Office (SCEO) website at www.energy.sc.com, or contact Whitney Wurzel, SCEO Public Information Coordinator, at (803) 737-8035 or wurzel@energy.sc.gov.

Training Schedule



Our in-house training courses are based on different skill levels. Whether you need to get a new employee familiar with your Siemens system or help your current system operator reach their most productive skill level – we can meet the needs of your entire staff. Enrollment is “first come, first serve” and classes fill quickly.

If you are interested in our training courses and have not received a training directory, please call Ernie Glenn at CMI, **803-779-6050 ext 411** or visit our website, **ww.controlmanagement.com**, for more information. We look forward to seeing you in upcoming CMI training classes!

AIG-101 *Insight for New Users - Part 1: Introduction*

Learn the basic operations of the system for day to day use through graphics. *No recommended prerequisites.*

Class Date: **August 15, 2007**

TEC-101 *Insight for New Users - Part 2: TEC's – Terminal Equipment Controllers –*

Learn how TEC's control building equipment and communicate with field panels, communicate with the field panel using Controller Interface Software (CIS) or Datamate, communicate with a TEC from the room temperature sensor using a laptop, and through the field panel or Insight.

Class Date: **September 12 , 2007**

AIG-202 *Insight for New Users - Part 3: Reports, Trending & Scheduling –*

Learn to create, display, and print various reports; trending (data stored when a change of value or time occurs); schedule equipment, run times, trends, and reports and much more, all through graphics.

Recommended prerequisite: AIG-101.

Class Date: **October 17 , 2007**

** Dates for all classes are subject to change. Please check our website (www.controlmanagement.com) for dates before registering.*

PC Corner

by: **Chris Bigalkie, PC Sales for Siemens in South Carolina**



News on Performance Contracts in South Carolina

The Charleston Housing Authority recently signed an Energy Savings Performance Contract (PC) with Siemens Building Technologies. Siemens performed an extensive detailed energy audit prior to the signing of the contract. The PC value is \$3,930,932 and is being funded by Siemens Financial Services. The contract guaranteed savings are \$360,084/year for 12 years (\$4,321,008 total). The Facilities improvement measures (FIMS) include: Water conservation, Kitchen Sink and Faucet retrofits, Kitchen bath and faucet and valve retrofits, exterior water shut off valves, window retrofits, and energy efficient refrigerators. The construction will take place over 10 months. Siemens Energy and Environmental Services South Carolina Manager, Chris Bigalke, can be reached for any questions about this project or other PC questions. Chris can be reached at chris.bigalke@siemens.com or by phone at 864-809-1039.

Siemens is also proud to have been announced as one of four International Energy Services Companies (ESCO's) to be included in the Clinton Climate Initiative. The CCI is a joint partnership of Bill Clinton Foundation, City Governments, Energy Service Companies, Financial Institutions, and Trade Organizations to work with the 40 largest cities in the world to reduce the energy use in their buildings which generate 50 percent of their Greenhouse Gas Emissions and up to 70 percent in mature cities such as London and New York. These retrofits are expected to reduce energy use by 20-50%. The financial institutions have committed \$1 Billion for this effort, with a total pool of \$5 Billion for the CCI program. The retrofits will be paid for over time with the energy savings generated. For more information on the Clinton Climate Initiative and Siemens participation please go to <http://www.clintonfoundation.org/cf-pgm-cci-home.htm>

Customer Spotlight

South Carolina Aquarium Charleston, SC

Control Management, Inc. has done HVAC control systems for many facilities that house people, but when the opportunity to incorporate our Siemens product into one of SC most unique attractions, the SC Aquarium, presented itself, we jumped at the opportunity. Open to the public since May of 2000, the SC Aquarium houses more than 10,000 types of marine plants and animals, including alligators, sharks and blue herons. The SC Aquarium has been visited by millions people since its opening, and has become one of the best attractions South Carolina has to offer. There are a lot of wildlife and people counting on the facility to run smoothly.

In 2001 Control Management, Inc. met with the Aquarium management because they were displeased with the maintenance cost of their existing control system provided by another company. At the time, they were paying to maintain the graphics front end with any additional service being billable for time, material and mileage.

As we have done with many other customers, we retrofitted and upgraded the controls with a Siemens APOGEE System using their existing budget. This offering also included a 5 year full service maintenance contract. At the end of the 5th year, the Aquarium's full maintenance service contract was reduced significantly. We are currently in the middle of year 6, and they continue to pay a reduced amount while receiving the full service package we offer, which includes time, material and mileage.

As we move forward with working with the Aquarium, we have a few projects in the works. With many different types of marine life and expensive equipment housed in their facility, security is an important part of the system, and CMI has been involved with upgrading and adding doors to the card access system. Future work at the Aquarium also includes installing Variable Frequency Drives to the cooling tower and upgrading the controls on the variable air volume boxes.

As the SC Aquarium continues to grow and change, CMI looks forward to continually working with them to meet all of their HVAC control needs and to look for other ways to serve this very unique customer.

South Carolina Aquarium



Product Spotlight

Introducing: TX-I/O

The newest product for use with the APOGEE Automation System
in the building automation industry



TX-I/O™ is a range of I/O modules with associated power and communication modules for use within the APOGEE Automation System. The range combines favored features from existing products with state-of-the-art I/O technology. The result is a high-quality, modular, expansion I/O product range with characteristics that are unique to building automation and control. TX-I/O Technology provides flexibility of point types, a wide range of signal types and support for manual operation.

The TX-I/O product range consists of the following:

- ◆ P1 BIM (Bus Interface Module)
- ◆ Eight types of TX-I/O modules
- ◆ Bus Connection Module
- ◆ TX-I/O Power Supply

Feature	Function	Benefits
Flexibility of signal types	Allows a wide range of signal types to be connected to a single module.	A smaller variety of service inventory parts is needed providing for lower inventory costs.
Din rail mounting	Modules are installed by snapping clips onto din rail.	Quick and easy mounting of modular products for optimized workflow.
Vac and Vdc for field devices	TX-I/O bus passes both 24 Vac and 24 Vdc which can be used by field devices next to point terminations on Universal and Super Universal modules.	May eliminate terminal strips and extra transformers saving material cost and easing troubleshooting.
Parallel power supplies	Multiple power supplies share the 24 Vdc load required by the TX-I/O modules and field devices.	As more I/O points are added and more power is needed, power supplies can be added up to a maximum of four. This allows for larger groups of I/O (maximum of 80 points) without adding another controller or P1 BIM.
Flexibility in installation	With a P1 BIM, TX-I/O modules can be located on the P1 FLN or MEC Expansion Bus. They can be mounted vertically or horizontally. The communication and power bus can be extended out of an enclosure up to 50 meters (164 ft).	Expansion I/O can be located in a central location or distributed to be nearby mechanical equipment potentially saving wiring costs or making retrofits easier.
Self-forming bus	Bus integrated in the terminal base is established when TX-I/O devices are connected together. The self-forming bus provides for the data communication signal and power for the TX-I/O modules as well as for some field devices	Simple step of connecting modules also installs communication and power bus. No need for separate wiring for TX-I/O bus resulting in saving a labor step.

If you have any question concerning TX-I/O, the new features or anything regarding this product, please contact Control Management, Inc. at (803) 765-9070 or 1-888-381-9970.



CMI News



Happy Summer and 4th of July from CMI!



Wishing you a happy, safe and cool summer from everyone at Control Management, Inc.!

Welcome!

Welcome New CMI Employee:

Welcome!

Jeffrey Williams, Derek Collins, Mike Leiti and James Koon

Jeffrey Williams has joined Control Management, Inc. in our service department in our Columbia office. We are pleased to welcome Jeffrey. to CMI. His email address is: Jeffw@controlmanagement.com

Mike Leiti has joined Control Management, Inc. in our service department in our Myrtle Beach office. We are pleased to welcome Mike. to CMI. His email address is: Mikel@controlmanagement.com

Derek Collins has joined the installation department at Control Management, Inc. He will be working out of our Myrtle Beach office. We are pleased to welcome Derek to CMI. His email address: Derekc@controlmanagement.com

James Koon is the newest addition to the installation department at Control Management, Inc. He will be working out of our Columbia office. We are pleased to welcome James to CMI. His email address: Jamesk@controlmanagement.com

Congratulations:

Kathy Smith, Frank Murphy and Greg Davis



Congratulations to **Kathy and Patrick Smith** on the birth of their first child. **Carolyn Elizabeth Smith** was born June 21, 2007. She weighed 8 pounds and was 21 inches long. Everyone at CMI wish all the best to Kathy, Patrick and Big Sister Linda as they welcome Carolyn to their family. Kathy works in accounts payable at Control Management, Inc.

Congratulations to **Frank and Betsy Murphy** on their recent marriage. The wedding was held on June 3, 2007 in Columbia, SC. Frank is a project manager out of the Charleston office.

Congratulations to **Greg and Priscilla Davis** on their recent marriage. The wedding was held on June 16, 2007 in Aiken, SC. Greg is in our service department out of the Columbia office.



Pictures from CMI's 4th of July Party at Lake Murray Saturday, June 30, 2007



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