



# FMC Connection

Spring 2007

[www.fmc-technologies.com](http://www.fmc-technologies.com)

## A Few Words From The Management Team

*1997 marks the 10 year Anniversary of FMC Technologies. The past decade has brought many changes in our industry and within our organization. We have seen consolidation in the industry and our company has grown and responded to numerous market changes.*

*The celebration of our 10th Anniversary is made possible by you. We would like to extend a sincere thank you to all our customers, especially those who have been loyal to us over the past ten years. We appreciate your business and look forward to providing you with the superior customer service you have come to expect from us over the next decade.*

---

## Global Warming

Global warming continues to be a hot topic of conversation. It appears there is little doubt that the atmosphere is heating up but what does this mean for your facility?

Tremendous growth of green buildings is expected and there is pressure to reduce energy consumption in existing buildings. FMC can help your building become more environmentally friendly by replacing heating, cooling and lighting systems with energy efficient networks and setting up sensors to provide for more efficient use of lights and air conditioning. Rebates from utility companies and tax incentives are often available to defray the costs of energy saving initiatives.

Taking global warming into account for facility management decisions is important from both an environmental viewpoint as well as its impact on the bottom line. Reducing energy consumption can make your business more competitive and will also help reduce the green house gases that contribute to global warming.

## Energy Benchmarking

How does your facilities' energy performance compare to the industry average? FMC Technologies offers benchmarking services to evaluate current efficiency and identify opportunities for improvement. Benchmarking allows you to identify where your specific building ranks relative to others. We calculate the energy use intensity (EUI) of your building, provide the industry average EUI for buildings with the same characteristics as yours, and identify where your building's performance ranks compared to others. Energy benchmarking utilizes both site and source energy (the energy used to generate, transmit, and distribute the site energy).

Benchmarking identifies inefficient buildings that would benefit from upgrades. FMC Technologies will make recommendations based on the benchmarking results for which system upgrades will improve efficiency and lower your operating costs.

Please contact Trish Reynolds at 978-649-0145 or [treynolds@fmc-technologies.com](mailto:treynolds@fmc-technologies.com) if you are interested in learning more about FMC Technologies' benchmarking services.

FMC Technologies, Inc.  
24 Westech Drive  
Tyngsboro, MA 01879

Phone: 978-649-0145  
Fax: 978-649-0148

# Chelmsford Middle Schools - Project Profile

## Project Overview

The Town of Chelmsford was faced with two aging middle schools with outdated building control systems. Parker Middle School and McCarthy Middle School were built in the 1950's and 1960's respectively and were no longer meeting the needs of students and town employees.

McCarthy has nearly 1000 students enrolled in its 166,200 SF two story building. Parker Middle School is approximately 135,000 SF and enrolls 730 students. The schools each have a cafeteria, gymnasium, and library in addition to the classrooms and administrative offices.

Several issues needed to be addressed during the renovation. The pneumatic control system required recalibration to maintain accuracy and was not always reliable. Temperature control was inconsistent, there was a lack of ventilation and the buildings were not energy efficient. The project also had time constraints as the majority of work needed to be done while students were on break for the summer.

## The Solution

The project included an entirely new HVAC and control system for the McCarthy Middle School, a new control system for Parker Middle School and the addition of new libraries for each school. The scope of work included more than 900 control points, 2 roof top units, 4 air

handling units, a new boiler plant and more than 85 new unit ventilators. The existing pneumatic control system was replaced with a Novar Logic One DDC system.

A new front end system located in the Chelmsford Town Offices now allows for central monitoring and control of the McCarthy and Parker schools, as well as all the schools with Novar Logic One systems.

## The Bottom Line

This project has resulted in numerous benefits for the Town of Chelmsford and its students. Temperature and air flow are now regulated by the Building Automation System (BAS), increasing the building's efficiency and reducing waste and costs. Central management, simpler operation, and a faster response time to issues that arise are among the project benefits. Improved indoor air quality and temperature control make a better environment for students and faculty. The DDC system offers precise control and reliability as well as lower total life cycle costs. The new system also allows for greater flexibility when future changes or additions need to be made.

Gary Persichetti, the Facilities Director for the town, stated "We have the ability to look up and see different parts of the building from a single source." Persichetti also believes the time savings is a huge benefit of the new system.



---

## Customer Service Plans

Does your facility have an FMC Customer Service Plan Agreement? Customer Service Plans offer our customers scheduled preventative maintenance, remote support, discounts on labor and material and priority service.

If you do not already have an FMC Customer Service Plan, it is an option you may want to consider. Please contact Scott Crosson at 978-649-0145 or [scrosson@fmc-technologies.com](mailto:scrosson@fmc-technologies.com) if you would like to learn more.



FMC Technologies provides advanced building control systems that reduce building operating expenses, increase productivity, and provide a safe, comfortable working environment. Our goal is to build enduring relationships with our clients by providing quality products, fulfilling