



Excellence In All We Do



***Mechanical, Electrical &
Plumbing Engineering Services***

Mechanical, Electrical & Plumbing Engineering Services

"Creating Positive Results..."



Watts supports a staff of 18 engineers and technicians who are proficient in the design of Mechanical, Electrical and Plumbing (MEP) systems for buildings. We have three licensed professional engineers and six LEED® accredited design professionals.



Mechanical Engineering

Some of the mechanical system design capabilities of the Watts' MEP group for commercial, educational, institutional, industrial and residential building types are:

- ◆ Heating, Ventilating and Air-Conditioning Systems
- ◆ Computer Room Air-Conditioning Systems
- ◆ Temperature Control Systems
- ◆ Building Automation Systems
- ◆ Central Chilled Water Plant Design, Centrifugal, Rotary Helical and Magnetic Drive Chillers
- ◆ Boiler Plants: Firetube, Watertube, Flextube Style Steam and Hot Water Boilers
- ◆ Geothermal Systems
- ◆ Water Source Heat Pump Systems



Clockwise: 150 Ton Magnetic Drive Chiller at Williamsville Towers Condominium, Williamsville, NY; Air-handling system at Trinity Tower Apartments, Buffalo, NY; Precision cooling system at high density server room, Utica, NY; 199 Ton Packaged Chiller, Finger Lakes DDSO, Building 58; One-megawatt engine generator supplying standby power, Utica, NY

Electrical Engineering



Some of the electrical engineering system design capabilities of the Watts' MEP group include:

- ◆ Electrical Service and Power Distribution: low voltage through 34.5 kilovolts
- ◆ Emergency and Standby Power Systems: Engine generators and Uninterruptible Power Supplies (UPS)
- ◆ Lighting Systems: interior, exterior
- ◆ Fire Alarm and Detection Systems
- ◆ Structured Telephone and Data Wiring System
- ◆ Security and Closed Circuit Television, Access Control System
- ◆ Lightning Protection Systems



Clockwise: Interior of Riggs Lakeside at SUNY Oswego, Watts provided full mechanical, electrical, plumbing and fire protection engineering at this 200-bed dormitory; Riggs Lakeside at SUNY Oswego, main entrance; Watts performed a hydrant flow test at the University Commons and; University Commons, Main Entrance, SUNY Fredonia

Plumbing & Fire Protection Engineering

Some of the plumbing and fire protection system design capabilities of the Watts' MEP group include:



- ◆ **Plumbing Systems** for Commercial, Educational, Institutional, Industrial and Residential Building Types, Including Domestic Water Distribution Piping, Sanitary and Storm Sewer Piping, Hot Water Storage and Heating, Plumbing Fixtures, Medical Gas Piping Systems and Plumbing Specialty Systems



- ◆ **Fire Protection Systems:** Wet, Dry, Pre-Action Sprinkler Systems, Standpipe and Hose System, Fire-Pumps, Hydrant Flow Tests, Clean Agent Extinguishing Systems

National Recognition & Award-Winning Designs

"Clients and consultant achieving together..."

2010	American Council of Engineering Companies of New York, Engineering Excellence Award - Gold
2010	American Council of Engineering Companies of New York, Engineering Excellence Award - Silver
2009	American Council of Engineering Companies of New York, Engineering Excellence Award - Gold
2009	American Council of Engineering Companies of New York, Engineering Excellence Award - Silver
2008	American Council of Engineering Companies of New York, Engineering Excellence Award - Platinum

Our Mechanical, Electrical & Plumbing People

"Thorough, responsive, and easy to work with..."

The Watts Mechanical, Electrical and Plumbing Department has over 250 years of combined experience and have worked on every type of building including commercial, educational, institutional and residential.

Here are some of the certifications & licenses the MEP Department holds:

- ◆ Professional Engineers - *New York, Ohio, New Jersey, Vermont, Maine*
- ◆ Engineer In Training
- ◆ LEED® Accredited Professional
- ◆ Construction Documents Technologist
- ◆ American Society of Certified Engineering Technicians
- ◆ National Institute for Certification in Engineering Technologies
- ◆ National Fire Protection Association Certified Fire Protection Specialist
- ◆ Certified in Plumbing Engineering
- ◆ American Society of Plumbing Engineers
- ◆ Certified Engineering Technician
- ◆ Fire Protection Engineering Technology



**For more information on our MEP services,
please contact:**

95 Perry Street, Suite 300
Buffalo, New York 14203
(716) 206-5100 (716) 206-5199 fax
rturley@watts-ae.com
rmarczewski@watts-ae.com
www.watts-ae.com

Buffalo, NY + Syracuse, NY



- ◆ Mechanical Engineering
- ◆ Electrical Engineering
- ◆ Plumbing & Fire Protection Engineering
- ◆ Civil Engineering
- ◆ Structural Engineering
- ◆ Transportation Engineering
- ◆ Environmental Engineering
- ◆ Asbestos/Lead Consulting
- ◆ Construction Inspection
- ◆ Indoor Air Quality
- ◆ Architecture

Cover Photos, Clockwise: 125 hp scotch marine style firetube boilers Buffalo Public School 82; Computer Room AC units and exterior view of heat rejection devices serving mainframe computer center; and Heat rejection devices serving mainframe computer center, Utica, NY



ACEC New York
American Council of Engineering Companies of New York