

## *Our Projects*

### Company Profile



Applied Engineering Management (AEM) Corporation was founded in 1986 as a 100% woman-owned business. Since its inception, AEM has experienced more than 22 years of profitable growth and employs one of the most stable, satisfied work forces in the industry. AEM supports a diversified client base that includes Fortune 500 companies and major government agencies located worldwide.

### AEM Difference



LEED Accredited Professionals  
Utility Operations Experience and Expertise

Strong Academic foundation to solve difficult issues

Many of our Professionals Teach at Leading Universities

### Contact



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## *Washington Gas*

Watergate is a one million square foot mixed use complex which is provided with chilled water and high pressure steam from a central plant managed by Washington Gas Light Company. The plant was originally constructed in 1964 and through the years has undergone numerous alterations for purposes of replacing aged equipment, improving energy and environmental performance and better serve the cooling and heating needs of the various commercial and residential customers. The plant is comprised of nearly 5000 tons of chilled water generation using both thermal and electric refrigeration along with high pressure dual fueled steam generation equipment. Over the years, multi-discipline engineering services have been provided for the following projects:

- Alterations to central cooling plant providing 1 Mw gas turbine driven chiller with 12,000 lb/hr heat recovery boiler
- Upgrade to central cooling plant providing double effect absorption cooling and free cooling system for winter operations
- Alterations to central cooling plant providing electric chillers for off peak cooling requirements
- Alterations to high pressure boiler control system including low NOx burners, metered combustion controls, multi-element feedwater controls and upgraded fuel oil delivery system.
- Title V permitting assistance associated with new boiler control systems
- Upgraded cooling tower and condenser water pumping system employing energy conserving controls and introduction of a new plant SCADA system
- New primary/secondary pumping systems improving overall energy use for the site chilled water distribution
- Upgraded electric service and chilled water generation plant adding additional electric chillers for purposes of reducing plant operating costs

Other related engineering services with Washington Gas have included the following general projects:

- Multiple MEP and process related improvements for various gate facilities
- Numerous rate based and deregulated analyses of natural gas based central plants