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Providing Integrated Water Treatment Systems  
For Total Treatment Solutions

**Arsenic - Iron - Manganese - Uranium - Heavy Metals - Hydrogen Sulfide**



## AdEdge Awarded 8 Treatment Systems

July was a great month at AdEdge with the awarding of 8 treatment systems including several uranium systems and arsenic removal systems using either adsorption or coagulation & oxidation filtration. The sites are located across the country, including Alaska, Indiana, Nebraska, New Mexico, California, Oregon and Nova Scotia.



### What's New!

[Uranium Treatment  
Iron & Manganese Removal  
System Reduces Cooling  
Tower Cost](#)

Did you know AdEdge designs  
Uranium treatment systems!

### Quick Links

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## Contact Us:

AdEdge Technologies Inc.  
5152 Belle Wood Ct.  
Suite A  
Buford, GA 30518

866-823-3343

678-835-0052

Fax. 678-835-0057

[info@adedgetechnologies.com](mailto:info@adedgetechnologies.com)

## Employee Spotlight



**Eric Nichol**

Eric Nichol is a Project Manager at AdEdge. Raised in rural Linden, Michigan, Eric upholds the true small town values and hard work ethic. His water treatment experience began with a local O.E.M of Commercial / Industrial and residential equipment as their dealer network manager. Through the course of his 10 year employment, he gained valuable knowledge and skills encompassing all aspects of water treatment, from initial design / application to installation



AdEdge provides treatment systems for for Uranium removal using AD92 an anion exchange media that is ideal for use in potable water as well as non-potable and environmental remediation applications for removal of naturally occurring uranium. The high efficiency AD92 can selectively remove the negatively charged uranium anion (most often in the form of uranyl carbonate) to below the existing EPA MCL of 30 ug/L. The AdEdge AD92 systems can deliver the needed performance in two ways: (1) via regeneration type systems which use the media to remove the uranium with periodic regeneration with NaCl brine; or (2) as a "throw away" discardable media, which can be discarded when spent. This option maximizes the very high capacity of the AD92 media. Where on-site regeneration is not available, this disposal option is the preferred option. Disposal options will vary based on federal, state, and local regulations.

### **The Benefits of AdEdge AD92 Treatment Technology**

**High Operating Capacity** - The high regeneration efficiency of AdEdge AD92 IX equates to higher throughputs per pound of regenerant chemical.

Complies with FDA regulations for potable water applications.

Conforms to paragraph 21 CFR173.25 of the Food Additives Regulations of the F.D.A.

Available as NSF/ANSI-61 Certified - WQA Gold Seal Certified

**Superior Physical Stability** - 93% plus sphericity combined with high crush strengths and uniform particle size provide greater resistance to bead breakage, resulting in longer resin

and start-up. Eric's extensive background and knowledge has been a welcomed addition to the AdEdge team.

## Industry Links

[NRWA](#)  
[WOA](#)  
[AWWA](#)

life and lower pressure drop.

Organic Fouling Resistance - Type Two exchange functionality provides a dramatic increase in resistance to organic fouling compared to other types of strongly anion exchangers.

## Iron & Manganese Removal System Reduces Cooling Tower Cost at McGraw Hill Data Center in East Windsor, NJ.



### Background

In late 2007, AdEdge began working with Maser Consulting Engineers to assist with design and implementation of an iron and manganese removal system to serve a new water supply for the McGraw Hill data center in East Windsor, New Jersey. The site had been purchasing city municipal water to feed its' cooling towers but recognized a substantial savings in converting to an existing groundwater supply well. The existing well water chemistry presented some challenges however with a pH of 5 and elevated iron levels of nearly 5 mg/L. High levels of iron & manganese can reduce cooling tower efficiency and require extensive and costly on-going maintenance.

AdEdge was selected to design, build, and startup an integrated treatment system to remove the iron and manganese to meet secondary MCLs of 0.3 mg/L and 0.05 mg/L respectively. AdEdge worked closely with Maser Consulting Engineers and the selected contractor, Central Jersey Mechanical, to supply the treatment system which included chemical feed (chlorine and pH correction), an AdEdge AD26 packaged iron and manganese removal filtration system, treated water backwash pump skid, finished

water supply booster pump package, and instrumentation. AdEdge also furnished the system with a PLC communications module to interface and allow for continuous monitoring via the data center's existing SCADA system.

### Treatment System

The AdEdge treatment system featured a skid-mounted AD26 oxidation and filtration package unit sized for a maximum design flow rate of 130 gpm. The model AD26-3660CS-S-3-AVH utilizes AdEdge AD26 MnO<sub>2</sub> media in a three vessel carbon steel configuration in parallel. The system is equipped with automated control valves and harness, central control panel with programmable logic controller (PLC) and a user interface color screen. System features also include differential pressure switches, local gauges, flow sensors & totalizers, and a central hydraulic panel with sample ports for a complete functioning packaged unit. A hypochlorite feed & monitoring module and pH adjustment module using sodium hydroxide (NaOH) are integrated into the system package. Each 36-inch diameter treatment vessel contains approximately 20 cubic feet of AdEdge AD26 oxidation filtration media. Other ancillary equipment with the treatment module included an auxiliary finished water backwash supply, distribution booster pumps, two 5,000 gallon finished water holding tanks and instrumentation. All of these components were controlled by a single master control panel in the AD26 system.

### Performance

The system was started up and commenced operation in July, 2008. The system has a very high utilization factor receiving water nearly 22 hours per day to meet the demand of the cooling towers. Approximately 100-110 gpm of water with high iron and manganese levels exceeding 4 mg/L and 0.1 mg/L is being consistently treated to below the treatment goals of 0.3 mg/L and 0.05 respectively. The system has experienced little to no down time since installation.

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