

# MGP/Remediation Services for the Electric Generation Industry

**Tetra Tech is a full-service remediation contractor with the resources, systems and geographic reach to tackle any environmental challenge anywhere. From front-end planning, through engineering design and implementation of the remedy, Tetra Tech has what it takes to get the job done.**

Tetra Tech has assisted numerous utility clients in addressing issues at more than 100 former manufactured gas plant (MGP) sites throughout the United States. We have extensive experience planning, managing, and implementing both front-end remedial investigative work and back-end remedial planning, design, and remedial action work for MGP sites. Our services range from regulatory negotiation, risk assessment, remedial investigation, data management, and feasibility studies, to development of remediation approaches, site remediation and restoration, and case closure.

Also noteworthy is our expertise in developing and implementing strategies for MGP sites with contaminated sediment concerns, as well as MGP sites that are targeted for redevelopment as part of our clients' Brownfields initiatives.



## **Tetra Tech's MGP capabilities include:**

- Strong safety track record
- Office locations proximate to all U.S. MGP sites
- Experience with the range of remedial technologies and approaches, including: excavation and disposal; risk assessment; thermal destruction; barriers/capping; in-situ stabilization; in-situ thermal; in-situ chemical oxidation; DNAPL collection; monitored natural attenuation; odor control technologies; Guaranteed Fixed Price Remediation (GFPR); site restoration/redevelopment
- Experts capable of designing approaches and self-performing remediation and construction activities
- Integrated approach to environmental management, with ability to handle all project phases – from investigation through design to final cleanup
- Experience working in sensitive environments (e.g., urban settings, adjacent to live electrical structures)

**Tetra Tech** is a leading provider of consulting, engineering, program management, construction management, and technical services. The Company supports commercial and government clients by providing innovative solutions to complex problems focused on water, environment, energy, infrastructure, and resource management. With 13,000 employees worldwide, Tetra Tech's capabilities span the entire project life cycle.

Our clients' business and regulatory concerns regarding MGP sites have changed over time and our approach has evolved to effectively meet client requirements. In the past, emphasis was often placed on innovative investigation methods and extensive site characterization programs. We are now more focused on remediation implementation of sediments and Brownfields redevelopment as an integral part of MGP remediation. We have been successfully achieving MGP site closures through mechanisms such as development of risk-based cleanup standards, implementation of "common sense" site closure strategies, and limited "hot spot" remediation.

Tetra Tech is well positioned to assist in reducing and recovering life cycle costs and providing expert testimony, litigation support, and insurance and rate recovery support. By integrating in-house risk assessment, investigation, design, and construction capabilities, we evaluate potential risk issues during ongoing site characterization/

remediation programs. As a result, adjustments can be made into ongoing programs, as necessary, saving our clients resources, time, and money.

Tetra Tech's MGP team identifies and implements cost-effective, technically sound investigative and analytical techniques, and focuses on appropriate and creative application of risk assessment to achieve site closure, using our substantial modeling capabilities to optimize solutions for our clients. We focus on the application of proven as well as innovative remedial technologies/solutions, such as bioremediation (e.g., bioslurping), containment systems (e.g., polywalls and capping), advanced ChemOx and "combination" technologies, in-situ remediation, and natural attenuation, in addition to conventional "dig and haul." Our construction personnel have the capabilities to cost-effectively implement the range of selected remedial technologies.

### **Tetra Tech provides:**

- Award-winning safety performance
- Full service remediation
- Continually ranks as top performer in the Engineering News-Record
- More than 40 years of related environmental, engineering and construction experience
- Demonstrated experience in manufactured gas plant remediation design and construction

### **Company Facts:**

- 13,000 employees
- Annual revenue: \$2.5 billion (FY2014)
- NASDAQ Symbol: TTEK
- Bonding capacity: \$750 million
- Geographic reach: More than 300 offices worldwide

### **Tetra Tech Construction is highly experienced in the removal of former MGP Gas Holders**

These subsurface structures involve the excavation, segregation and disposal of coal tar sediments, liquids and debris. Tetra Tech Construction also has the capability to remove the holder structure and prepare the debris for off-site disposal. Tetra Tech's expertise includes, but is not limited to: Excavation and Disposal • Dewatering • Sheet Piling/Grout Walls • In-Situ Stabilization of MGP Materials • In-Situ Chemical Oxidation • Demolition of MGP Plants • Capping of MGP Sites • Slurry/Cut-off Walls • Demolition of MGP Gas Holders • MGP Waste Management and Disposal • Odor Control • Design-Build Groundwater Treatment Systems



### **For more information:**

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