



HK Pipelines

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HK Tank Cleaning: Safe, Complete and Hi-Tech

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Manager

An incoming phone call at Hydro-Klean's offices often begins with, "I've got a tank to clean."

At HK, we know the customer has called the right place. We pride ourselves on the quality, professional services that we provide, especially when it comes to cleaning storage tanks. Over the years, we have cleaned tanks containing petroleum, corrosives, paints, solvents and raw-material products, such as flour and sugar. We know from direct experience that tanks come in every shape, size and format—above-ground/underground, vertical/horizontal—and that the product/rinsate rarely flows to one point.

Safety is our number one priority for any project and tank cleaning is no exception. While cleaning tanks, HK personnel risk potential exposure to hazardous materials. Our knowledgeable staff works diligently to select the personnel-protective equipment appropriate to the conditions and materials at hand. Extensive confined-space entry/fall protection programs and training are also in place to ensure the safety of HK personnel on site.

HK's Specialized Services

HK provides a specialty service in the bulk-petroleum storage industry. Our personnel are trained and equipped to perform the covered tasks at storage/pipeline facilities that fall under the jurisdiction of the U.S. Department of Transportation's Operator Qualification (OQ) regulations (49 CFR 192). For additional information on Hydro-Klean's OQ status, pipeline operators can visit www.isnetworld.com.

Our Safety/Service Trailer

To address the specific needs of bulk-petroleum customers, HK has configured a safety/service trailer to bring all the necessary equipment and tools to the job site. The trailer holds three, thirty-pound, Purple K fire extinguish-



Overview of a Tank Farm

ers; a cascade-supplied, air-respirator system; confined-space entry equipment; non-sparking tools and a supply of absorbent materials. HK has also invested in a pneumatic-powered fan capable of 11,000 cfm, which mates with the API, twenty-inch tank opening to ventilate the vapors from the tank interior. When isolating the tank, HK personnel are equipped to split the flanges and place "skillets" in the pipeline. The trailer is fully stocked with skillets, gaskets and bolts for pipes from two to sixteen inches in diameter.

HK crews also pin and unpin the legs of internal, floating-roof tanks prior to maintenance or tank cleaning activities. The internal floating roof minimizes the vapors present in the head space between the product and the upper, exterior roof. The legs themselves are necessary to prevent the floating roof from falling to the bottom of the tank when the product is drained. During leg pinning and unpinning, a technician enters the tank from above and connects or disconnects the pins that secure the legs of the floating roof in either the up or down position.

Using Water Power

The HK arsenal includes a wide range of equipment to handle almost any situation. As you would expect, with a name like Hydro-Klean, high-pressure water is our specialty. To tackle the most difficult situations—including stubborn beer stone from fermentation tanks at ethanol plants throughout the Midwest—HK can use up to 15,000 psi. HK also utilizes hot-and-cold-water power washers and can provide specialty-blended chemical solvents, if needed, including sanitizers in food-grade facilities.



HK Sr. Service Technician, Shawn VonStein, Power-washing a Tank



HK Environmental Coordinator, Ryan Blackburn, Pinning Tank Legs

A Full-Service Provider

Hydro-Klean's customers expect us to be a full-service provider. Therefore, we must deal with the waste and/or rinsate that is a byproduct of cleaning. Our fleet of powerful vacuum trucks can collect and transport the waste material to a suitable disposal facility or to our own, non-hazardous, Industrial Waste Pretreatment Facility. We can also call on additional resources to transport bulk materials when the quantity warrants it. Whatever the need, HK will follow all applicable state, federal and regulations for transportation and disposal of the waste materials.

With all of this in mind, the next time you're faced with a tank cleaning project, no matter how big or small, one call to Hydro-Klean will give you a professional, hi-tech, competitive, turn-key solution.