

## CASE STUDY

# Acid Wash and Refurbishing of EVSS

### IMS Acid Washes, Refurbishes, and Brings Over 25 Systems Back to Original Product Specifications

Integrity Municipal Services (IMS) is a company dedicated to providing the best aftermarket care for emergency vapor scrubber systems (EVSS), and odor control systems (OCS). IMS personnel pride themselves on the thoroughness and dependability of their services.

The cleaning and refurbishing of an emergency vapor scrubber system requires attention to every system component: internals, piping, nozzles, packing media, pump, fan, instrumentation, and system controls. The system cleaning is carried out in complete compliance with Environmental Safety and Health regulations including proper and safe disposal of residual chemicals and acid rinse solutions.

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IMS' scope of work includes complete turnkey supply of parts, equipment, services, chemicals, tank and totes, waste disposal, and fresh chemical charge. IMS technicians inspect scrubber system internals, replace all gaskets and fan belts, lubricate equipment, and replace all external piping as necessary. The system is nearly restored to the original manufactured condition.

A typical acid cleaning of an emergency vapor scrubber system may require two technicians for up to five days. The process includes the following: (1) removing as much of the existing liquid caustic solution as possible and disposing of it, (2) dissolving solids buildup in sump with muriatic acid by continuously adding acid solution, (3) recirculating acidic solution over packing media to dissolve solids buildup in packing, (4) cleaning spray nozzles, and (5) removing the acidic solution and disposing of it. The system is rinsed again with water prior to the final inspection of all internal components.



**BEFORE**



**AFTER**

City of California City, CA. Feb 2007, Apr 2010

**BEFORE**



**AFTER**



*Irvine Ranch Water District, CA. Mar 2007, Apr 2009*



*City of Carlsbad, CA. May 2011*



*Canon City, CO. April 2011*

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