

Thermal desorption offers turn-key solution for refinery waste

EQ — *The Environmental Quality Company*

As of December 2009, new Canadian Land Disposal Restrictions (LDR) will drastically limit the waste disposal options for northern oil refineries by following suit with U.S. environmental laws and banning the usage of Canadian landfills for many types of organic wastes.

EQ — The Environmental Quality Company is responding to these urgent waste disposal demands by installing an indirect-fired thermal desorption unit (ITDU) at the company's facility in Belleville, Mich. Thermal desorption is a safe, established technology that has been used for years to manage refinery waste. This waste includes API separator sludge, tank bottoms, sewer cleaning sludge, etc.

The unit, which is already under construction, is scheduled to begin operations in November and will utilize the vast hazardous waste management infrastructure and industry experience already established by EQ.

Thermal desorption of waste allows refineries to take advantage of recycling technology.

"Our thermal desorption unit is a perfect solution for oil refining customers that have previously been using Canadian landfills," said David Lusk, president and CEO of EQ. "An added benefit is that this technology is considered recycling by the State of Michigan Department of Environmental Quality, which is something that these refineries have not been able to take advantage of in the past."

EQ is the only comprehensive environmental services provider that can offer a total, turnkey package to the refining industry, from cleaning to final disposal. EQ's Industrial Services division can handle tank cleaning of any size, as well as the transportation of the residual waste generated by the ITDU process. Additionally, a centrifuge can be utilized for pre-treatment of the waste.

The Belleville facility is already a fully permitted, RCRA Part B hazardous waste transportation, storage and disposal facility (TSDF). The ITDU process, managing all K and F code hazardous waste, will utilize the already existing pretreatment operations at the facility, which includes a Regenerative Thermal Oxidation (RTO)

system. The RTO system uniquely qualifies EQ to meet compliance requirements for Subpart CC and Benzene NESHAP regulations. Additionally, any condensate waters generated as a byproduct will be treated at EQ Detroit, and EQ intends to send code-listed thermally treated residuals to its Subtitle C landfill (Wayne Disposal Inc.) adjacent to the ITDU.

In addition to reduced customer liability, the ITDU process allows customers to claim a recycling credit for a certain amount of waste, typically 15 percent. Recycled oil can be sent back to the customer at a desired specification or into the fuels market.

The system will operate 24 hours a day, 365 days a year except for prescheduled maintenance outages. With this uptime, large storage capacity and a design allowing for the ease of expansion, EQ can handle virtually any volume of waste.

The thermal desorption technology and equipment EQ will be using at the Belleville site was engineered by DuraTherm Inc., a Houston-based company with whom EQ has entered into a strategic partnership. DuraTherm is the market leader in indirect fired thermal desorption. DuraTherm's technology and experience will be a valuable benefit to EQ's customers.

The thermal desorption process uses indirect heat as high as 1,300 F, which volatilizes water and hydrocarbons entrained in the waste. The vapors pass through several phases of scrubbing and condensing, which allows for different boiling range hydrocarbon liquids to be produced, resulting in hydrocarbon-free solids.

EQ is a fully integrated environmental services and waste management organization based in Wayne, Mich., that implements innovative technology and service solutions that minimize waste volumes, reduce costs and protect the environment.

EQ owns ISO-certified treatment, disposal and recycling facilities and manages an extensive line of remediation, industrial cleaning and total waste management services throughout the United States. The company's combination of fixed-based facilities and extensive service capabilities allows EQ to meet the environmental sustainability goals of its customers.

For more information on thermal desorption or other EQ environmental services, visit www.eqonline.com or call (800) 592-5489.

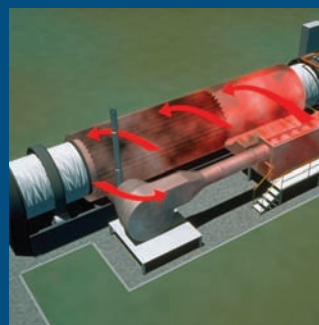


REFINERY WASTE SOLUTIONS



EQ - The Environmental Quality Company offers a new, turnkey solution for refinery waste that is a cost-effective and environmentally friendly alternative to direct landfill.

EQ's indirect thermal desorption unit (ITDU) in Belleville, Michigan not only reduces customer liability but also allows customers to claim recycling credit for a certain amount of the waste. EQ will utilize its new ITDU in conjunction with its vast hazardous waste management experience and infrastructure to handle refinery waste needs from cleaning and transportation to treatment and final disposition.



EQ IS THE ANSWER

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