



**ABOUT HOUSTON REFINING**

Houston Refining, LP (HRO), headquartered in Houston, TX, has a hazardous liquid transmission system spanning just 3.2 miles in the Houston region of the United States. Houston Refining’s 841 employees and its pipeline system and facilities are located in Houston, TX.

**WHAT DOES HOUSTON REFINERY DO IF A LEAK OCCURS?**

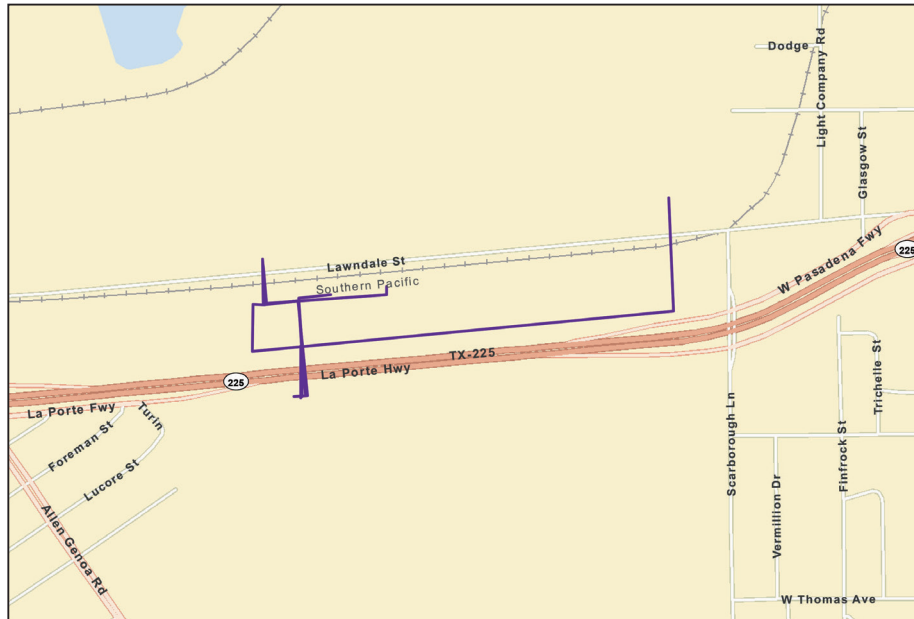
To prepare for the event of a leak, pipeline companies regularly communicate, plan and train with local emergency responders. Upon the notification of an incident or leak the pipeline company will immediately dispatch trained personnel to assist emergency responders.

Pipeline operators and emergency responders are trained to protect life, property and facilities in the case of an emergency.

Pipeline operators will also take steps to minimize the amount of product that leaks out and to isolate the pipeline emergency.

**MAINTAINING SAFETY AND INTEGRITY OF PIPELINES**

HRO invests significant time and capital maintaining the quality and integrity of their pipeline systems. All active pipelines are monitored 24 hours a day via manned control centers. HRO utilizes on-ground observers to identify potential dangers. Control center personnel continually monitor the pipeline system and assess changes



**PRODUCTS TRANSPORTED**

PRODUCT	LEAK TYPE	VAPORS
HAZARDOUS LIQUIDS [SUCH AS: CRUDE OIL]	Liquid	The vapors of crude oil are generally heavier than air, however, not in all cases. They tend to remain close to the ground and will flow along ground contours and may especially fill depressions such as ditches, valleys and canyons.
<b>HEALTH HAZARDS</b>	Crude oil vapors are flammable. Some transported crude oils may contain Hydrogen Sulfide Gas (H2S). H2S is a colorless gas which is irritating to the eyes, skin and respiratory tract at low concentrations; and, at higher concentrations may cause respiratory paralysis, unconsciousness, and death. H2S has a distinctive rotten egg odor.	

**EMERGENCY CONTACT:**  
 1-713-321-4211

**PRODUCTS/DOT GUIDEBOOK ID#/GUIDE#:**  
 Crude Oil 1267 128

**TEXAS COUNTIES OF OPERATION:**  
 Harris

*Changes may occur. Contact the operator to discuss their pipeline systems and areas of operation.*

in pressure and flow. They notify field personnel if there is a possibility of a leak. Automatic shut-off valves are sometimes utilized to isolate a leak.

Gas transmission and hazardous liquid pipeline operators have developed supplemental hazard and assessment programs known as Integrity Management Programs (IMPs). Specific information about HRO’s program may be found on our website or by contacting us directly.

**HOW TO GET ADDITIONAL INFORMATION**

For an overview of HRO’s IMP, go to www.lyb.com or contact us at 713-321-4211.

