MPLX LP, a master limited partnership sponsored by Marathon Petroleum Corporation, through its subsidiaries MarkWest Liberty Midstream & Resources, L.L.C. and Ohio Gathering Company, L.L.C., (collectively “MPLX”) has entered into a first-of-its-kind agreement with the U.S. Environmental Protection Agency, the Commonwealth of Pennsylvania and the U.S. Department of Justice to implement design and operating improvements at pipeline launcher and receiver stations. As a result of these enhancements, emissions from these operations are expected to be reduced by as much as 85 percent. As part of the agreement, we are sharing our proprietary designs for “pig ramps” to minimize liquid loss during pig retrieval and information on the installation of depressure systems to reduce the pressure in the launcher/receiver chamber prior to opening.

**PIG RAMPS**

MPLX designed and installed pig ramps within its pipeline receiver chambers to minimize liquids released while removing pigs. The ramps:

- Allow liquids trapped in front of the pig to be captured;
- Allow liquids on the pig itself to drain before the pig is pulled from the chamber

Any liquids that are captured by the pig ramps drain back into the pipeline. Design specification for the pig ramps are available in Patent Nos. 10,094,508; 10,001,240; and 10,012,340.

**DEPRESSION SYSTEMS**

MPLX has also installed systems to depressure launcher/receiver chambers prior to opening, which substantially reduces the volume of gases vented to atmosphere. The simple design includes installation of valve and small-bore piping from the high-pressure chamber to a low-pressure system at the station.