



MarinerEastNews

OCTOBER 2017

Pipeline Construction Update

Pipelines are a proven safe mode of transportation for energy products that are central to our everyday lives and essential to the nation's economy. We are committed to safety at the highest level and work tirelessly to meet or exceed all requirements of regulatory agencies, including the U.S. Pipeline and Hazardous Materials Safety Administration.

We start by working closely with the companies that design, build and coat the pipelines during construction.

- All new pipe is thoroughly tested and inspected to ensure it meets all regulatory requirements.
- All newly installed steel pipelines are treated with a protective bonded-epoxy coating to prevent corrosion.
- Cathodic protection systems, which further inhibit corrosion, are placed along the pipeline.
- As the sections of pipeline are being welded, an independent, third-party inspector must approve each weld using X-ray technology to ensure that each section is securely connected.
- Once the pipeline is installed, we will test it with water pressures at least 25 percent above the top pressure at which the line will be operating. This confirms the pipeline's strength and integrity.

When the pipeline is operational, we use the most advanced technologies available to analyze its condition and monitor its operation in real time. Certified controllers closely monitor the pipeline's pressure, temperature and flow, 24 hours, seven days a week, from a control center dedicated exclusively to the safe operation of our pipelines. They can shut down pipeline operations remotely.

We also patrol the pipeline right of way, on the ground and by air, and we reach out to neighbors, contractors and first responders to educate them about the pipelines in their communities. See all the ways we exceed federal safety requirements in the attached fact sheet. ●

Did You Know?

Sunoco Partners Marketing and Terminals, a subsidiary of Energy Transfer Partners L.P., is the first company in the U.S. to provide refrigerated liquid ethane for truck delivery. The service meets a demand for various ethane

uses, from energy research and development to cooling and other industrial applications. Our new truck-loading facility at the Marcus Hook Industrial Complex can load two trucks at once and is expandable to handle additional demand.

Gas Innovations is Sunoco Partners' first customer at the facility and will provide ethane to companies throughout the U.S., as well as international customers, for numerous uses.

Until now, Gas Innovations has been forced to buy its ethane in Europe. Ethane is transported to the Marcus Hook Industrial Complex from the shale fields of western Pennsylvania via the Mariner East pipeline system. ●

The first truck enters the loading pad for the new ethane distribution rack at Sunoco Partners Marketing and Terminals' Marcus Hook Industrial Complex in Marcus Hook, Pa., on Sept. 21. The facility's 300,000 barrel chilled ethane tank is in the background.



Photo: Energy Transfer Partners, L.P.

Contact Sunoco Pipeline

Mariner East 2 Project

525 Fritztown Road
Sinking Spring, PA 19608

855-430-4491

www.marinerpipelinefacts.com

Twitter - @SunocoPipeline



Mariner East 2 – Cumberland, York and Dauphin Counties

Sunoco Pipeline has segmented the construction of the 350-mile pipeline into seven sections from Ohio to southeast Pennsylvania. In keeping with our commitment to regular communication with local leaders and the community, each construction “spread” has an individual point of contact for community affairs.

Segment 4 is approximately 52 miles and includes communities in Cumberland, York and Dauphin counties.

Construction Update

Construction continues in every municipality within Segment 4, and crews continue to make significant progress. Our construction crews in Segment 4 along the Mariner East 2 pipeline have worked more than 900,000 hours.

Construction activities include:

- Crews are making significant progress on lowering in, backfilling and tying in the 20-inch pipeline, and are closing in on completing all sections that use this construction method.
- Crews are nearing completion of stringing, bending and welding the 20-inch pipeline along the right of way. Stringing is the laying out of pipe segments along the right of way, and bending is the shaping of pipe segments to fit the contours of the route.

- Crews have completed grading activities and pipeline fabrication work at eight valve site locations in this segment.
- Six horizontal guided boring machines are deployed to safely install the 20-inch and 16-inch pipeline beneath roads and some highways.
- Most horizontal directional drilling activities have resumed in Segment 4, and the 20-inch pipe was successfully pulled through and completed at six drill locations.

Construction of the 16-inch pipeline, while in the early stages, is progressing as road bores are completed, and progress is being made to string, bend, weld and coat the 16-inch pipeline along the right of way. More than

23 miles of the 16-inch pipeline have been lowered in and backfilled.

Crews continue to work primarily daytime hours, six days a week; however, some work will take place on Sundays during daytime hours. Notification to individual municipalities will be made where and when this work will take place.

We are deeply committed to our core values of safety, security and environmental stewardship, and these values will guide everything we do during construction of Mariner East 2.

We will continue to provide regular updates to local stakeholders in addition to this construction newsletter. ●

Sunoco Pipeline is dedicated to providing project information and construction updates to residents and local officials in the communities where we live and operate our Mariner East system. This regular publication will provide project updates; interested recipients may sign up at www.marinerpipelinefacts.com.



FOR MORE INFORMATION CONTACT: STEVE KRATZ • Steven.Kratz@energytransfer.com • 855-430-4491
www.marinerpipelinefacts.com • @SunocoPipeline



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