



Compressor Stations

As proposed, the Mountain Valley Pipeline (MVP) project is a natural gas pipeline system that spans approximately 301 miles from northwestern West Virginia to southern Virginia – and as an interstate pipeline will be regulated by the Federal Energy Regulatory Commission (FERC). The pipeline will be up to 42 inches in diameter and with the currently subscribed capacity of 2 Bcf per day will require three compressor stations, each of which are located in West Virginia.



What are compressor stations?

A compressor station is a natural gas facility located along a pipeline route that compresses gas in the line to increase pressure, allowing it to flow through the line toward its intended destination. Friction and elevation changes induce pressure drop on natural gas traveling in a pipeline and must be periodically compressed to ensure consistent pressure and efficient delivery; therefore, a compressor station is typically placed every 40 to 100 miles along the pipeline route.

Compressor stations on the proposed MVP route

The MVP project team has identified the need for three compressor stations along the proposed route to transport natural gas to its delivery point, the Transcontinental Gas Pipeline Company’s (Transco) Zone 5 Compressor Station 165 in Pittsylvania County, Virginia. Stations will be built on

lands purchased by the project and owned by Mountain Valley Pipeline, LLC and will provide approximately 171,600 horsepower (hp) of compression to the MVP line. The natural gas compressors will be driven by turbine engines that will be powered by natural gas. They will utilize a fraction of the gas coming through the station from the pipeline as fuel and will compress the remainder for transport and delivery.

Compressor stations along the route are identified as:

- **Bradshaw Compressor Station** – sited in Wetzel County, WV, located near milepost 2.8, to pull gas from the origination point near Mobley, WV for relay delivery to the Harris station. The Bradshaw station will contain four gas-fired turbines, providing approximately 89,600 hp of compression.
- **Harris Compressor Station** – sited in Braxton County, WV, approaching milepost 77.5 to pull gas from the Bradshaw station for relay delivery to the Stallworth station. The Harris station will contain two gas-fired turbines, providing approximately 41,000 hp of compression.
- **Stallworth Compressor Station** – sited in Fayette County, WV, at approximate milepost 154.2 to pull gas from the Harris station for relay delivery to the terminus at Transco Station 165. The Stallworth station will contain two gas-fired turbines, providing approximately 41,000 hp of compression.

Man-made pipeline tools, known as “pigs” are used to internally clean and inspect pipelines across the country. The MVP project team plans to install pig launchers at the origination point at the Mobley interconnect in WV, as well as at the discharge side of each compressor station, while receivers will be installed at the suction side of all compressor stations and at the terminus of the pipeline at the Transco Zone 5 station in VA.

The MVP compressor stations will be monitored 24/7 by an offsite system and will have remote devices with the ability to observe, control, and shut down operations in the event of an emergency. Emissions from the construction and operation of each compressor station will comply with all applicable air quality regulations as permitted by regulatory authorities. Equipment, controls, and safe operating practices will be utilized to minimize emissions. Pending FERC approval of the project, the estimated construction start date for the MVP compressor stations is mid-year 2017, with construction completion in late 2018.

