



Compressor Stations

As proposed, the MVP Southgate project is a natural gas pipeline system that spans approximately 72 miles from southern Virginia to central North Carolina – and as an interstate pipeline will be regulated by the Federal Energy Regulatory Commission (FERC). MVP Southgate will be developed, constructed, and owned by Mountain Valley Pipeline, LLC (Mountain Valley). As currently proposed, the pipeline will be 24 inches in diameter and will require two compressor stations, one at the beginning of the project in Virginia and another smaller compressor station in North Carolina.



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 the natural gas traveling in a pipeline and must be periodically compressed to ensure consistent pressure and efficient delivery.

Stations on the proposed MVP Southgate route

Mountain Valley has identified the need for two compressor stations along the proposed route to transport natural gas to its delivery points in Rockingham and Alamance Counties, North Carolina. Stations will be built on lands purchased by the project and owned by Mountain Valley. 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:

- **Lambert Compressor Station** – sited in Pittsylvania County, VA, located at milepost 0.0, to pull gas from the interconnection with the Mountain Valley Pipeline mainline at Transco Station 165 for relay delivery to the Russell Compressor station and downstream delivery points. As proposed, the Lambert Station is sited to include three gas-driven turbines, providing approximately 48,000 hp of compression.
- **Russell Compressor Station** – sited in Rockingham County, NC, near milepost 28 to boost gas from the Lambert Compressor Station to allow for delivery to East Tennessee Natural Gas. As proposed, the Russell Compressor station is sited to include one gas-driven turbine, providing approximately 11,000 hp of compression.

Man-made pipeline tools, known as “pigs” are used to internally clean and inspect pipelines across the country. The MVP Southgate project team plans to install pig launchers at locations along the pipeline in order to achieve the cleaning and inspection requirements.

The MVP Southgate 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 Southgate compressor stations is in the first quarter of 2020, with targeted construction completion in the fourth quarter of 2020.

