

Plain Language Summary for New Source Review (NSR) Initial Application for Air New Source Review Permit Number 183630

The following summary is provided for this pending air permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

MarkWest Energy West Texas Gas Company, LLC (CN604839829) has submitted an initial application. The Secretariat Gas Plant (RN112105358) will process natural gas 20 miles north of Mentone, Loving County.

This initial application will authorize the installation of vessels, piping, loading equipment, heating devices, devices to compress gas, and control equipment used to treat natural gas from pipelines in an enclosed process. The process will remove carbon dioxide, hydrogen sulfide, low pressure hydrocarbon liquids, and high pressure hydrocarbon liquids from the natural gas leaving mostly methane in the natural gas. The low pressure hydrocarbon liquids will be stored in vessels and periodically loaded to trucks for transportation offsite. The high pressure hydrocarbon liquids will be routed offsite in an enclosed pipeline. The carbon dioxide and hydrogen sulfide vapors which will contain a small amount of hydrocarbon vapors will be routed to control. The natural gas containing mostly methane will be routed offsite in an enclosed pipeline. There will also be ten engine generators on site for the purpose of power generation. This application will also be incorporating an existing similar process from an existing permit into this permit. MarkWest Energy West Texas Gas Company, LLC has listed in the application the pollutants and amounts that will be emitted for each facility. Below is the total amount for each pollutant that is proposed to be emitted each year for all the facilities.

Pollutant	Total Proposed Emissions (tons per year)
NO _x	346.83
CO	373.95
SO ₂	84.27
VOC	254.65
PM	31.30
H ₂ S	0.10
Formaldehyde	9.20

Vapors from the part of the process used to remove carbon dioxide and hydrogen sulfide will be controlled by a device that will burn off gases using an enclosed flame during routine operation and lower the vapors going into the air. When the routine control device is not in operation a different back up device using a visible exposed flame will be used to burn off gases to lower the vapors going into the air. Vapors from the vessels storing lower pressure liquids will be controlled by a device that captures the gases that then routes back into the process using enclosed piping. These vapors may also be controlled by a device using a visible exposed flame to burn off vapors to lower the vapors going into the air. Vapors from loading lower pressure liquids into trucks will be controlled by routing the gases through enclosed piping back to the vessels storing the lower pressure liquids. Vapors from non-routine operations will be controlled by a device using a visible exposed flame to burn off vapors to lower the vapors going into the air.