APPLICATION OF FLARES

WHAT YOU NEED TO KNOW ABOUT FLARING

Flaring is the controlled burning of natural gas and a common practice in oil/gas exploration, production, and processing operations. Excess hydrocarbon gases are burned in the flare systems in an environmentally-sound manner, as an alternative to releasing the vapor directly into the atmosphere. A flare system consists of a flare stack and pipes that feed gas to the stack. This often takes place during start-ups and shutdowns in the production phase when the volume of gas being extracted can be uncertain. In this respect, flare stacks provide a critical means by which to ensure safety.

WORKOVER OPERATIONS

Flaring is often necessary when performing well maintenance or plugging and abandonment on of a producing well. The flare is used to combust the gas from the well casing so the work on the well can be performed safely. Usually flaring takes place at the beginning of the workover service and is not in constant use.

COMPLETIONS OPERATION

Well completions generate flowback from each of the wells, following fracking. All gas produced during flowback will be routed to the pipeline for additional processing outside of Broomfield. If there is excess gas produced that the pipeline capacity cannot accommodate, the Operator Agreement allows for the gas to be combusted onsite using an enclosed flare, which is also known as an Emission Control Device (ECD). The ECD controls ≥98% of the VOC gas emissions generated during flowback.

PRODUCTION FACILITIES

Many existing and future production facilities will have an enclosed flare also known as an ECD. The enclosed flare is used to combust volatile organic compounds from emissions on facilities with tanks. For the new tankless facilities in Broomfield, no routine venting or flaring is planned. Any maintenance activity necessary during the production phase that requires flaring will be performed with an enclosed ECD with ≥98% destruction efficiency.

Production Unit Enclosed Flare
(Emission Control Device)

Workover Flare

source: www.tciusainc.com

OIL AND GAS
IN BROOMFIELD

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