



Gas Station Design

Buisier Engineering (BE) provides, testing, upgrade, and design of gas service stations according to the American environmental and engineering standards.

The requirements according to API RP 1516, PEI 100, and PEI 300 for designing gas stations friendly to the environment includes the following;

1. Underground storage tanks have to be double walled with the outer wall made of corrosion free material like fiber glass or plastic.
 2. Product lines should be of flexible corrosion free material and run inside a secondary line, all lines start and end in Sumps.
 3. Vapor should be equipped with vapor recovery system to collect gasoline vapor.
 4. Automatic inventory control and leak detecting apparatus shall be installed to the system.
 5. Sheer valves that stop the flow automatically in case of emergency should be installed.
 6. Overfilling of the tank should be prevented by using a ball float valve.
 7. All tank openings should be contained in spill containers.
- Stations are designed to be monitored remotely, in the senses of inventory and sales. Non-volumetric tank testing is conducted to underground storage tanks and pipes to assure their integrity, when they are free of leakage, EZ-2 test can detect leakage as small as 5cm³ of product per minute.

Buisier Engineering can upgrade existing gas stations to up-to date standards by applying cathodic protection to the underground tanks and pipes, install vapor recovery system and automatic inventory apparatus for leak detection.

Gas stations can be designed customer friendly when they are pay at the pump type, so the customer can fill his vehicle on his own using credit or debit card at the pump without needing assistance from operator.