

Planning A NGV Refueling Station



Who to Contact

BAUER can answer your questions pertaining to the planning and installation of a NGV refueling station, including questions specific to the requirements of NFPA 52.

Refer to the latest edition of NFPA 52, Compressed Natural Gas (CNG) Vehicular Fuel Systems Code published by the National Fire Protection Association (NFPA). NFPA 52 applies to the design and installation of compressed natural gas (CNG) engine fuel systems on vehicles of all types, including original equipment manufacturers (OEM) and vehicle converters, and to compressed natural gas vehicle (NGV) refueling stations.

- Contact the National Fire Protection Agency at www.nfpa.org to purchase the latest edition of NFPA 52

Identify and contact the Authority(s) Having Jurisdiction (AHJ) for the location of the refueling station and others who can provide assistance. Ascertain which local, county, state and federal codes and standards will be applicable.

Contact:

- Fire Marshall
- Zoning Board
- Electrical Inspector
- Building Inspector
- Other _____

Contact the local gas utility.

- Confirm that gas is already at or available at the site and the gas pressure(s) available
- Confirm if the gas supply is from a gas utility and of pipeline quality, or if it is from a well. If well gas, ask for a gas analysis
- Confirm the quality of the gas, including moisture content
- Confirm if the existing gas line can support the gas demand of the station

Contact the local electric utility.

- Confirm that power is already at or available at the site and the voltage(s) available
- Confirm if the existing power supply can support the electrical demand of the station

Contact local contractors with experience in installing NGV refueling stations.

- Visit the planned site with a qualified contractor, AHJs and the BAUER Representative
- Inspect the planned site for suitability of installing a NGV refueling station. Use NFPA 52 as a guideline.

Ask The Experts!

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Questions to Ask

Contact **BAUER** to review the refueling needs of your fleet.

- Describe the fleet (e.g. cars, pickups, vans, forklifts, school buses, courier service, municipal, utility, small transit bus/van, large transit bus, etc.)
- Confirm the size of the NGV fleet that will refuel at the station
- Confirm the fleet's current fuel type
- Confirm the fleet's daily, monthly or annual fuel consumption
- Confirm the fleet's current refueling schedule
- Confirm if any of the data will change for the NGV fleet
- Confirm the fill pressure(s) for the NGV fleet
- Confirm if the fleet will fill overnight (*slow fill*) or fast fill from storage or a combination of both overnight refueling and fast filling
- Describe the location of the planned refueling station in terms of ambient temperature extremes
- Describe the location of the planned refueling station in terms of its immediate surroundings (e.g. city/town with businesses located nearby, residential, industrial park with other businesses close by, private property with no noise limitations, etc.)
- Confirm if the station will be for a private fleet, public refueling or both

Contact Clean Cities. The U.S. Department of Energy's Clean Cities Program supports public-private partnerships that deploy alternative fuel vehicles and build supporting alternative fuel infrastructure. Clean Cities can provide information about local Clean Cities Coalitions and clean corridors, alternative fuel news and events, fleet success stories, support and **funding**, tips for starting a coalition in your area, available alternative fuel vehicles and more.

- Contact Clean Cities at www.cities.doe.gov

NOTES:

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