

# Fuel Storage Tanks

# 33.56.00

**Description:**

The purpose of the section is to highlight the current applicable UMCP Design Standards for the design and installation of Fuel Storage Tanks.

**Related Sections:**

- TBD

**Effective Date:**

July 10, 2009

**Applicable Standards:**

- Factory Mutual Engineering and Research Corporation (FM) Approval Guide
- NFPA 17A – Wet Chemical Extinguishing Systems
- NFPA 70 – National Electrical Code
- NFPA 72 – National Fire Alarm Code
- NFPA 96 – Ventilation Control and Fire Protection of Commercial Cooking Operations
- Underwriters Laboratories Inc (UL) Fire Protection Equipment Directory
- UL 300 – Fire Testing of Fire Extinguishing System for Protection of Restaurant Cooking Areas
- All installations/or removals must be in accordance with the requirements of OSHA, Federal, and State EPA regulations, COMAR, The Maryland Department of the Environment and the International Mechanical Code. Also Reference Section 1, Environmental Health and Safety in facility design for UST regulatory considerations/citation.

**General Requirements:**

- The contractor shall be responsible for all required inspections and permit applications.
- When at all possible, natural gas service or above ground fuel tanks are preferred over underground storage tanks.
- Tanks shall be constructed of double wall fiberglass reinforced plastic (FRP) for underground use and double wall steel for above ground tanks.
- Piping shall be either FRP or copper depending on size.
- Material used in construction of the tank shall be compatible with the substance to be stored.
- Low level alarm signal to DDC or Hawkeye as appropriate, and a high level alarm on a local horn or bell mounted at or near the tank vent approximately 8 foot above grade.
- If the fuel storage tank is not located in the mechanical room with the generator set, then a remote level gauge near the generator is required.
- Manholes, over-fill level alarms and/or other over-fill protection nozzles shall be provided as required.
- Abandoned tanks must be removed and disposed of by the Contractor.