SECTION 13200

PETROLEUM TANKS

PART 1 – GENERAL

1.01 **SUMMARY**

A. Pacific Lutheran University's continual objective of protecting its community and the environment must be adhered to in the installation of aboveground tank systems to prevent the contamination of soil and groundwater.

1.01 **INSTALLATION**

A. All new petroleum tank systems must be installed aboveground.

B. The Environmental Health and Safety Office and Facilities Management must review requests to have petroleum tank systems installed underground. If the situation warrants, underground installations may be considered.

PART 2 – ABOVEGROUND PETROLEUM TANK SYSTEM INSTALLATION

2.01 **INSTALLATION**

A. A Spill Prevention, Control, and Countermeasure (SPCC) plan must be prepared for any facility that meet the criteria outlined in 40 CFR 112. The Environmental Health and Safety Office of Pacific Lutheran University must review the SPCC.

B. Tanks shall be of steel construction with an exterior surface coating system designed to prevent corrosion and deterioration.

C. Secondary containment of steel construction shall have the same surface coating system as the tank to prevent corrosion and deterioration.

D. Corrosion protection for tank bottoms and underground piping, secondary containment, leak monitoring, gauges or high level alarms, and spill/overfill protection must be provided per regulations.

E. Tank and associated piping must be pressure tested for tightness. A forty-eight (48) hour notice of testing must be provided. Written certification of system tightness must be provided to Maintenance Management.

2.01 **ACCEPTANCE AND GUARANTEE**

A. Acceptance for Pacific Lutheran University of the petroleum storage system must be by Maintenance Management.

B. Three (3) copies of O & M manuals and as-built drawings must be provided.

PART 3 – UNDERGROUND PETROLEUM TANK SYSTEM INSTALLATION

3.01 **INSTALLATION**

A. All installations must follow applicable Washington State, EPA (40 CFR 280), and Pierce County codes and regulations.

B. New underground petroleum tank systems must consist of corrosion resistant tanks and pipes, secondary containment of tanks and pipes, leak monitoring system, overfill prevention, fill port labels and underground piping access ports.

C. Underground tanks must be of steel construction with Underwriters' LaboratoriesÆ and STI-P3 labels.

D. Secondary containment for the tank shall be provided via double-wall construction and a full 360 degree outer shell.

E. Underground piping must be fiberglass reinforced plastic (FRP) or cathodically protected steel/iron.

F. FRP is the preferred material for piping. However, compatibility between the FRP and the product to be stored must be determined before FRP is specified.

G. Secondary containment for all underground piping is required.

H. Tank and associated piping must be pressure tested for tightness. A forty-eight (48) hour notice of testing must be provided. Written certification of system tightness must be provided to Maintenance Management.

3.01 **ACCEPTANCE AND GUARANTEE**

A. Three (3) copies of O & M manuals and as-built drawings must be provided.

END OF SECTION