

## Feynman Computing Center (FCC) Generator Spill Plan

Feynman Computing Center has 6 generators which serve as emergency backups for the FCC data centers. The largest generator, located at the east end of the FCC parking lot, contains a diesel tank that holds 1900 gallons of diesel fuel. The UL listed, double-walled, steel fuel tank provides 100% secondary containment. The fuel tank/containment facilities comply with all applicable provisions of NFPA30, NFPA31 and appropriate state and local fire codes. A tertiary containment exists which surrounds the concrete foundation of the generator. This containment is capable of holding 3,400 gallons of liquid, and is comprised of the following:

- Cast-in-place concrete walls to provide a 48" wide trench around the generator foundation;
- 6" clay liner along the bottom of the 48" wide trench;
- Geotextile fabric, located above the clay liner;
- A 48" wide trench, which is filled with 33" of 1.5 inch diameter river washed gravel;
- An 18" diameter fiberglass sump in the corner of the 48" wide trench to collect any water that may accumulate

The two 640 kW Caterpillar generators, located at the south yard of FCC, each have a diesel tank that holds 650 gallons of diesel fuel. The double-walled steel fuel tank provides 100% secondary containment.

The three 500kW Generac generators, also located at the south yard of FCC, each have a diesel tank that holds 936 gallons of diesel fuel. The double-walled steel fuel tank provides 100% secondary containment.

**During fueling, an attendant must be present at the nozzle to prevent overflow.** Fuel containment facilities shall be provided at fill tube as necessary to capture fuel, should there be a spill or overflow of fuel tank. The fuel tank includes a float and alarm horn with silence pushbutton to alert the operator when the tank is full. The float activates and deactivates the sounding of the horn.

Building management shall inspect the fuel gauge on a monthly basis to determine the amount of fuel present in the tank. This inspection shall be documented. If the gauge indicates that the fuel is low, and the generator log shows that the generator has not been running for any extended period of time, then there is reason to suspect a leak/spill. An effort will be made to determine if a leak is present, and if the spill is contained.

If a spill were to occur outside of the primary tank, 3131 shall be called. The Fire Dept. will assure that the spill is contained. **Feece Oil** will be contacted to remediate the spill. Their address is 517 Twin Rail Dr. Minooka, IL 60447. The phone number is **(815) 521-0191 or (888) 879-1911**. Whether or not the fuel is to be reclaimed for use or disposed of, the Hazard Control Technology Team needs to be immediately notified, x3741 or x4498).

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