



OFFICE OF THE ILLINOIS STATE FIRE MARSHAL
Division of Petroleum and Chemical Safety
1035 Stevenson Drive
Springfield, Illinois 62703-4259
(217)785-1020

FOR OFFICE USE ONLY

Facility # 2-045701
Permit # 00849-2014INS
Request Rec'd 09/09/2014
Amended Date
Approval Date 9/11/2014 DS
Permit Expires 3/11/2015

Permit for INSTALLATION of Underground Storage Tank(s) and Piping for Petroleum and Hazardous Substances.

Permission to install underground storage tank(s) or piping is hereby granted. Such installation must be in complete accordance with acceptable materials as specified in the Federal Register, Part II Environmental Protection Agency, 40 CFR Parts 280 and 281, and also with all sections of 41 Illinois Administrative Code, Parts 174, 175 and 176. The contractor the permit was issued to or an employee of that contractor (this does not include a subcontractor) shall submit a required job schedule for installation of underground storage tank(s) to the Office of the State Fire Marshal, Division of Petroleum and Chemical Safety. **THIS PERMIT IS VALID FOR SIX MONTHS FROM THE APPROVAL DATE.**

(1) OWNER OF TANKS - Corporation, partnership, or other business entity: Cosmic Ventures 1212 New York Ave, NW Suite 200 Washington, DC 20005 Contact:	(2) FACILITY - name and address where tanks are located: CH2 Data Center - Phase 1 2299 Busse Road Elk Grove Village, Cook Co., IL Contact:
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(3) INSTALLATION OF TANKS:

- (a) Number and size of tanks being installed:** (TK # 1, 2, 3, 4) - 40,000 gallons
 - (b) Type of tanks:** (TK # 1, 2, 3, 4) - (Installing) Composite Double Wall ACT 100
 - (c) Type of piping:** (TK # 1, 2, 3, 4) - (Installing) Fiberglass Single Wall Piping Ameron Dualoy 3000L single wall fiberglass vent piping, TK # 1, 2, 3, 4) - (Installing) **4 Transition Sumps FRP fiberglass, 2 will be at the fuel polisher and 2 at building where primary piping will transfer to aboveground piping to supply day tank for generators; 4 in-line piping sumps will also be installed where fuel flow will be controlled in case of equipment failure, (TK # 1, 2, 3, 4) - (Installing) Fiberglass Double Wall Ameron Dualoy 3000/LCX supply and return lines. Supply lines from 8 submersible sumps to the in-line sumps, then from the in-line sumps to the transition sumps at the building where piping will transfer to above ground to supply the day tank for the generators, and also to supply the fuel polisher; Return lines will be sloped back towards the tanks from the fuel polisher transition sump back to the tanks as well as from the day tank transition sumps at the building back to the tanks. All piping will be 2" primary with 3" secondary. (TK # 1, 2, 3, 4) - (Installing) Submersible Sumps containment FRP, a total of 8 submersible sumps will be installed with 4 being the primary supply lines to and through the in-line sumps to the transition sumps at the building and 4 will be transferring fuel to the fuel polisher.**
 - (d) Product to be stored in each tank:** (TK # 1, 2, 3, 4) - Diesel Fuel
 - (e) Type of leak detection being used:**
 - Tank:** (TK # 1, 2, 3, 4) - (Installing) Interstitial Monitoring Veeder Root TLS 350 Plus , (TK # 1, 2, 3, 4) - (Installing) Automatic Tank Gauging Veeder Root TLS 350 Plus
 - Piping:** (TK # 1, 2, 3, 4) - (Installing) **Piping Sump Sensors Interstitial Monitoring Veeder Root TLS 350 Plus in all 8 submersible sumps as well as in all 4 transition sumps, (TK # 1, 2, 3, 4) - (Installing) Mechanical Pressurized Line Leak Detection FE Petro STP-MLD-D will be used for fuel polisher lines only, (TK # 1, 2, 3, 4) - (Installing) Electronic Pressurized Line Leak Detection Veeder Root TLS 350 Plus for the primary generator supply lines with alarm only.**
 - (f) Corrosion Protection being used:**
 - Tank:** (TK # 1, 2, 3, 4) - (Installing) Composite Non-Corrosive
 - Piping:** (TK # 1, 2, 3, 4) - (Installing) Fiberglass Non-Corrosive
 - (g) Spill containment devices, piping and dispenser containment devices:** (TK # 1, 2, 3, 4) - (Installing) Manhole Pre-manufactured OPW 1
 - (h) Overfill prevention devices:** (TK # 1, 2, 3, 4) - (Installing) Overfill Drop Tube Valve OPW 71SO , (TK # 1, 2, 3, 4) - (Installing) Overfill Alarm Veeder Root TLS 350 Plus
- (4) The owner must notify this Office when completion of tank installation has occurred, on the Notification for Underground Storage Tank Form and the licensed contractor must submit the required job schedule for installation to the OSFM prior to the work being performed. Both forms can be obtained at www.sfm.illinois.gov or by calling (217)785-1020.**
- (5) GENERAL REQUIREMENTS:** There shall be a minimum of two manufactured slotted or perforated observation wells of at least 4 inches in diameter, installed in each new tank field of tanks larger than 1000 gallons and one well for tanks less than 1000 gallons. A water tight containment shall be installed under all dispensers and at submersible pumps. A hydrostatic test must be performed on all containments. All steel piping for vents, risers, and fills in contact with the ground, backfill, or water shall be dielectrically wrapped or coated. A positive shut off valve shall be installed on pressurized product lines, at the submersibles, or installed at the tank for all suction

pipng systems. Vent piping is required to be tested from tank to grade level. All steel flex connectors in contact with ground, backfill or water shall have corrosion protection.

(6) SPECIAL CONTINGENCIES:

(7) PERSON, FIRM OR COMPANY PERFORMING WORK:

J & D Mechanical Industries, Inc.
6521 Main Street, Suite A, P.O. Box 113
Union, IL 60180

Contact Person: William Baird
Phone: (815) 923-4510

Contractor Registration # IL-1943 Exp. 04/26/2016

Sincerely,



Daniel Starks

cc: Storage Tank Safety Specialist -
Fire Department -
Division File
(Rev. - 9/10)