



Office of the Illinois State Fire Marshal
Division of Petroleum and Chemical Safety
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Springfield, IL 62703
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Amended

FOR OFFICE USE ONLY

Facility #: 4024086
Permit #: 00485-2023INS
Request Rec'd: 05/05/2023
Amended Date: 08/31/2023 DS
Approval Date: 05/08/2023 DS
Permit Expires: 11/08/2023

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 shall establish a date and time certain to perform the UST activity by scheduling the permitted activity through their UST contractor portal account. All testing forms must be submitted prior to the final being conducted. The tank owner must submit a Notification for Underground Storage Tanks form prior to the scheduling of the final schedule at: <https://webapps.sfm.illinois.gov/USTPortal/NotificationForm>.

THIS PERMIT IS VALID FOR SIX MONTHS FROM THE APPROVAL DATE.

OWNER OF TANKS - Corporation, partnership, or other business entity: Mac's Convenience Stores, LLC 1100 Situs Court, Suite 100 Raleigh, NC 27606 (None) County Contact: Elizabeth Patterson 984/389-1765	FACILITY - name and address where tanks are located: Circle K #1432 506 South Prairie View Road Mahomet, IL 61853 Champaign County Contact: Helen Gordon 217/586-3875
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Tanks on the Permit

Tank #	Product	Capacity	Tank Status	Regulated Status
5	Gasoline - Regular	20,000	Tank Not Installed	Federal
6	Diesel Fuel	12,000	Tank Not Installed	Federal
7	Gasoline - Premium	8,000	Tank Not Installed	Federal

Tank 5 Equipment

Equipment Type	Permit Equipment	Action
Leak Detection - Tank	Automatic Tank Gauging Veeder Root TLS 350	New
Leak Detection - Piping	Electronic Pressurized Line Leak Detection	New
Spill Containment Device	Double Wall Spill Bucket	New
Overfill Prevention Device	Overfill Drop Tube Valve	New
Corrosion Protection - Tank	Fiberglass Non-Corrosive	New
Corrosion Protection - Piping	Fiberglass Non-Corrosive	New
Piping	Flexible Double Wall OPW Flexworks	New
Piping	Flex Connector Steel	New
Piping	Single Wall STP/Tanktop Sump	New
↳ Leak Detection - Piping	Non-Discriminating Sump Sensor with positive shutdown	New
Piping	Ball Valves	New
Piping	Shear Valves	New
Leak Detection - Tank	Non-Discriminating Interstitial Monitoring Sensors	New
Tank	Fiberglass Double Wall XERXES	New

Tank 6 Equipment

Equipment Type	Permit Equipment	Action
Leak Detection - Tank	Automatic Tank Gauging Veeder Root TLS 350	New
Leak Detection - Piping	Electronic Pressurized Line Leak Detection	New
Spill Containment Device	Double Wall Spill Bucket	New
Overfill Prevention Device	Overfill Drop Tube Valve	New
Corrosion Protection - Tank	Fiberglass Non-Corrosive	New
Corrosion Protection - Piping	Fiberglass Non-Corrosive	New
Piping	Flexible Double Wall OPW Flexworks	New
Piping	Flex Connector Steel	New
Piping	Single Wall STP/Tanktop Sump	New
↳ Leak Detection - Piping	Non-Discriminating Sump Sensor with positive shutdown	New
Piping	Ball Valves	New
Piping	Shear Valves	New
Leak Detection - Tank	Non-Discriminating Interstitial Monitoring Sensors	New
Tank	Fiberglass Double Wall XERXES	New

Tank 7 Equipment

Equipment Type	Permit Equipment	Action
Leak Detection - Tank	Automatic Tank Gauging Veeder Root TLS 350	New
Leak Detection - Piping	Electronic Pressurized Line Leak Detection	New
Spill Containment Device	Double Wall Spill Bucket	New
Overfill Prevention Device	Overfill Drop Tube Valve	New
Corrosion Protection - Tank	Fiberglass Non-Corrosive	New
Corrosion Protection - Piping	Fiberglass Non-Corrosive	New
Piping	Flexible Double Wall OPW Flexworks	New
Piping	Flex Connector Steel	New
Piping	Single Wall STP/Tanktop Sump	New
↳ Leak Detection - Piping	Non-Discriminating Sump Sensor with positive shutdown	New
Piping	Ball Valves	New
Piping	Shear Valves	New
Leak Detection - Tank	Non-Discriminating Interstitial Monitoring Sensors	New
Tank	Fiberglass Double Wall XERXES	New

General Requirements

USTs shall be installed to safeguard against movement by anchoring in accordance with manufacturer's instructions.

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 piping 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.

Summary of Work

NEW TANKS AND PIPING

1. An ILOSFM Install permit is included in this quote.
2. There is a shed and wood dumpster. The shed should not be in the way. The wood dumpster is NOT in great shape but we will take every precaution to not damage the enclosure.
3. Excavate the existing tank hole larger to accommodate the Circle K supplied Containment Solutions tanks. Quote is based on the tanks sizes being:
The 20,000 (NL) double wall tank 10' x 37'9"
The 20,000 split 12,000 (Dsl.)/8,000 (Prem.) double wall split tank 10' x 38' 10"

The 6,000 (DEF) double wall tank 8' x 19' 6"

4. All spoils excavated will be loaded onto trucks and hauled off as "clean".
5. Form and pour the tank deadmen on site.
6. Bed the bottom of the tank hole with 1' of the tank manufactures approved backfill material.
7. Set the deadmen in place, receive the Circle K supplied tanks, perform required testing in the presence of the ILOSFM, set tanks into the tank hole and strap to the deadmen.
8. Backfill the tanks to the tops and ballast the tanks with water from an onsite water source. If water needs to be trucked in, costs will be billed as a change order.
9. Clean up the existing pipe trenches for the new pipe run.
10. Furnish and set four (4) (gas side) FRP dispenser sumps 1.5" higher than what the existing drive pavement is. At the diesel dispensers set the five (5) dispenser sumps 1.5" higher than what the existing drive pavement is.
11. Furnish and install in the UDC's bulkhead fittings, flex hoses and shear valves.
12. On the tanks, furnish and install four (4) FRP tank sumps with watertight lids.
13. Furnish and install in the STP sumps Red Jacket 2hp sub units with 2" ball valves, flex hoses, product and electric bulkhead fittings. In the DEF sump install a Red Jacket DEF sub unit.
14. Furnish and install spill and vapor buckets with swivel fill and vapor adaptors, overfill drop tubes and extractor valves.
15. Run four (4) 2" single wall FRP vent lines to the grass area behind the tanks. Furnish and install a vent rack and run the vent lines 12' above grade.
16. Furnish and install 2" flex pipe from the STP's to the diesel UDC's and 1 1/2" flex pipe to the forecourt for those gas/diesel dispensers.. The diesel in the forecourt will be the two (2) outside dispensers.
17. The DEF remote fill will be set up by the curblin close to the trash enclosure. The audible alarm will be mounted next to this remote fill.
18. At all nine (9) islands, furnish and set four (4) 4" round steel bumper poles and supply a Circle K spec. sleeve to go over them. Two (2) will be set 2' on the outside of the canopy column and two (2) will be set 2' from the dispenser.
19. Air test the product and vent piping, water test the UDC and STP sumps and spill buckets in the presence of the ILOSFM.
20. Excavate a 3' wide electric trench from the back of the store to the tank hole. All spoils will be hauled from the site as "clean".
21. Electrician to run the following conduits:
 - 3 - 3/4" conduits to each UDC (27)
 - 2 - 3/4" conduits to each STP (8)
 - 1 - 3/4" conduit to each ATG (4)
 - 1 - 3/4" conduit to each interstitial (3)
22. Furnish and install thirteen (13) sump sensors, sensor modules, 4 input and 4 output modules into the existing Veeder Root console.
23. Supply and pull in all needed wire and make connections at both ends.
24. Saw cut and trim edges of the pavement.
25. Backfill all excavated area to sub grade, furnish and set manholes and pour back in all concrete. Quote based on 4,635 SF of pavement.
26. Remove the water from the tanks and dry the tank bottoms.
27. Receive Circle K supplied fuel.
28. Set the dispensers back onto the island. Start up, purge and calibrate.
29. Program the Veeder Root for the new tanks. Program the ATG for positive shutdown.
30. Circle K to have a 3rd party tank and line test performed.
31. Meet the ILOSFM on site for the final.

Special Contingencies

Amendment Reason:

CHANGE TANKS TO XERXES BRAND INSTEAD OF CONTAINMENT SOLUTIONS AMEND PERMIT TO XERXES TANKS INSTEAD OF CONTAINMENT SOLUTIONS

PERSON, FIRM OR COMPANY PERFORMING WORK:	
Neumayer Equipment Company, Inc. 5060 Arsenal Street St. Louis, MO 63139	Contact Person: Jimmy Spiros Phone: 314/210-5036 Email: HEATHER_HINDS@NEUMAYEREQUIPMENT.COM Contractor License # IL1502 Exp. 3/26/2024

Sincerely,



Daniel Starks