



Office of the Illinois State Fire Marshal
Division of Petroleum and Chemical Safety
1035 Stevenson Drive
Springfield, IL 62703
2177851020

FOR OFFICE USE ONLY

Facility # 4047542
Permit # 00098-2023INS
Request Rec'd 01/24/2023
Amended Date
Approval Date 1/26/2023 DS
Permit Expires 7/26/2023

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 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: Mac's Convenience Stores, LLC 550 Warrenville Road Lisle, IL 605324640 Contact: Cody Thiems (918) 615-7304	(2) FACILITY - name and address where tanks are located: QT #7191 1320 N Third Street Effingham, IL 32401 Contact: Cody Thiems (918) 615-7304
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(3) INSTALLATION OF TANKS:

- (a) *Number and size of tanks being installed: (TK # 1, 2, 3, 4) - 20,000, (TK # 5) - 18,000, (TK # 6, 7, 8, 9) - 30,000*
- (b) *Type of tank(s): (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Tank - Fiberglass Double Wall Containment Solutions*
- (c) *Type of piping: (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Piping - Flexible Double Wall Universal Petro Pipe from tanks to transition sumps, to blending sump and from those sumps to dispensers, (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Piping - Other Steel Riser, (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Piping - Other Submersible Pump, (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Piping - Ball Valves, (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Piping - Flex Connector Steel, (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Piping - Single Wall STP/Tanktop Sump, (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Piping - Single Wall Transition Sump*
- (d) *Product to be stored in each tank: (TK # 1, 2) - Gasoline - Regular, (TK # 3) - Gasoline - Non Ethanol, (TK # 4) - Gasoline - Premium, (TK # 5) - B-99, (TK # 6, 7, 8, 9) - Diesel Fuel*
- (e) *Type of leak detection being used:*
 - Tank: (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Leak Detect - Tank - Automatic Tank Gauging Veeder Root TLS 450, (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Leak Detect - Tank - Hydrostatic Reservoir Interstitial Monitoring Sensors*
 - Piping: (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Leak Detect - Piping - Electronic Pressurized Line Leak Detection, (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Leak Detect - Piping - Non-Discriminating Sump Sensor with positive shutdown in all submersible, blending, transition and dispensing sumps*
- (f) *Corrosion Protection being used:*
 - Tank: (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Corrosion Prot - Tank - Fiberglass Non-Corrosive*
 - Piping: (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Corrosion Prot - Piping - Fiberglass Non-Corrosive*
- (g) *Spill containment devices, piping and dispenser containment devices: (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Spill Contain Device - Double Wall Spill Bucket*
- (h) *Overfill prevention devices: (TK # 1, 2, 3, 4, 5, 6, 7, 8, 9) Overfill Prev Device - Overfill Drop Tube Valve*

- (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 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 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.

(6) SPECIAL CONTINGENCIES :

2. Quote is bid to install the one set of tanks then move over and install the other set of tanks right afterwards. There is only one mob charge in for the equipment for these two (2) tank holes.
3. Form and pour the deadmen on site. (if option is taken)
4. Have a sieve analysis done on the rock that we will use for the tanks as well as have the tank manufacture supply an approval letter.
5. Provide an engineered slide rail shoring system Must have access to all four (4) sides of the hole for the shoring install and removal.
6. Excavate the tank holes, all spoils will be loaded onto trucks and hauled from the site as "clean". Install the slide rail shoring system and line the tank hole with 6 oz. non woven geotextile fabric.
7. Set the deadmen and bed the bottom of the tank hole with 1' of tank manufactures approved rock.
8. Coordinate with the tank manufacture and have the tanks delivered to the site. Supply a crane to set the deadmen in place and to unload and set the tanks into the tank hole.
9. Stockpile backfill materials on site and using a tele belt place the rock in the hole to the tank tops.
10. Ballast the tanks with water from an onsite water supply. If water has to be trucked in additional there will be charges.
11. Dig the petroleum ditch, load and haul all the spoils from the site as "clean". Line the ditches with geotextile fabric.
12. With the QT supplied materials pipe in the tank tops, set islands and sumps, run the product and vent lines per the drawings. Pipe in the bio blenders at the four (4) truck diesel islands.
13. Per QT spec. furnish and install galvanized piping on all the gas tanks and black pipe for the diesel. All of the piping will be 4" and will be coated and wrapped with the Polyken tape and primer.
14. All the exposed metal components within the tank sumps will get two (2) coats of oil resistant (Krylon) royal blue spray paint.
15. Air test all piping for the regulating agencies.
16. Per QT spec. perform a Caldwell water test on all the tank and dispenser sumps with water. Water test the spill 1 of 5 buckets.
17. NO ELECTRIC FOR PETROLEUM INCLUDED IN QUOTE. SITE GC TO SUPPLY THE ELECTRICIAN
18. Backfill the tank hole and product line ditches to sub grade.
19. Over the tanks install the geo grid, sono tube and #57 gravel per the specs.
20. Set the QT supplied manholes. Be on site the day the GC's concrete contractor pours the tank slab.
21. Set and secure the air mover on the canopy I-beam, connect our 4" pipe to the air mover.
22. Furnish and install 1" stainless steel solenoid valve, temp. sensor and stainless steel piping in the end DEF sump.
23. Set dispensers, install the hanging hardware and valances. Remove water from the tanks and dry the tank bottoms. Arrange for an alcohol bath of the tanks. Receive fuel, start up the dispensers, purge fuel thru the lines/dispensers, work with QT-FS technicians to get dispensers on line with there POS.


NOTE: A motor fuel dispensing permit must be applied for asap

(6) PERSON, FIRM OR COMPANY PERFORMING WORK:

Neumayer Equipment Company, Inc.
5060 Arsenal Street
St. Louis, MO 63139

Contact Person: Jimmy Spiros
Phone: (314) 772-4501
Contractor Registration # IL1502 Exp. 3/26/2024

Sincerely,



Daniel Starks

cc: Storage Tank Safety Specialist
Division File