



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 # 3003145
Permit # 00096-2023UPG
Request Rec'd 01/26/2023
Amended Date
Approval Date 1/26/2023 DS
Permit Expires 7/26/2023

Permit for UPGRADE or REPAIR of Underground Storage Tank(s) and Piping for Petroleum and Hazardous Substances.

Permission to upgrade or repair underground storage tank(s) or piping is hereby granted. Such upgrade or repair 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 underground piping upgrade, leak detection, spill and overflow prevention of underground storage tank(s) to the Office of the State Fire Marshal, Division of Petroleum and Chemical Safety.

<p>(1) OWNER OF TANKS - Corporation, partnership, or other business entity:</p> <p>Mae's Convenience Stores, LLC 1100 Situs Court, Suite 100 Raleigh, NC 27606</p> <p>Contact: Elizabeth Patterson (984) 389-1765</p>	<p>(2) FACILITY - name and address where tanks are located:</p> <p>Circle K #1424 1801 North Morton Avenue Morton, IL 61550</p> <p>Contact: Carol Phillips (309) 263-4057</p>
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(3) UPGRADE OR REPAIR OF TANKS:

- (a) *Number and size of tanks being upgraded or repaired: (TK # 6, 7) - 20,000*
- (b) *Type of tanks:*
- (c) *Type of piping: (TK # 6, 7) Piping - Fiberglass Double Wall Ameron Dualoy 3000/LCX, (TK # 6, 7) Piping - Shear Valves, (TK # 6, 7) Piping - Flex Connector Steel, (TK # 6, 7) Piping - Single Wall STP/Tanktop Sump, (TK # 6, 7) Piping - Single Wall Transition Sump*
- (d) *Product to be stored in each tank: (TK # 6, 7) - Diesel Fuel*
- (e) *Type of leak detection being used:*
 - Tank:*
 - Piping: (TK # 6, 7) Leak Detect - Piping - Non-Discriminating Sump Sensor with positive shutdown in all sumps*
- (f) *Corrosion Protection being used:*
 - Tank:*
 - Piping:*
- (g) *Spill containment devices, piping, and dispenser containment devices:*
- (h) *Overflow prevention devices:*
- (i) *Manway accessible at grade:*

(4) The owner must notify this Office when completion of tank upgrade/repair has occurred, on the Notification for Underground Storage Tank Form and the licensed contractor must submit the required job schedule for underground piping upgrade, leak detection, spill and overflow prevention 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) SPECIAL CONTINGENCIES :

- 2. Shut down all the diesel lanes, blow the fuel from the lines back into the UST's.
- 3. Excavate to find the two (2) existing product lines coming from the UST's.
- 4. Furnish and set eight (8) FRP dispenser sumps with bulkhead fittings, flex hoses and shear valves. The diesel shear valves will be 2". There will be NO islands, these sumps to be set 1.5" higher than existing grade.
- 5. Cut the two (2) product lines coming from the UST's and set a transition sump.
- 6. Tap into the existing product lines and run 2" LCX to all eight (8) of the UDC's including the satellite in and satellite out lines.
- 7. Cut back and the reinstall the existing DEF line back into both FRP sumps. The DEF shear valves will be 1". This line will stay at just the two lanes it is at currently.
- 8. Perform a hydrostatic water test on the eight (8) sumps.

9. There is currently three (3) water hydrants. These hydrants will remain in place and be re-used. No work to be performed on these hydrants.
10. All eight (8) dispensers will get all new conduits. Each of the eight (8) sumps will get three (3) 3/4" conduits. For power, CRIND, sump sensor and intercom.
11. Excavate an apx. 86' trench from the back of the store, across the lot to the canopy area. This ditch will be 30" wide x 30" deep.
12. Electrician will run power from the electric room up above the drop ceiling and come out just south of the gas meter that is on the back wall of the store, this is apx. 30' in the store.
13. Mount a trough on the exterior of the store and run the twenty four (24) conduits from there.
14. Electrician to pull in all product spec. wire for power, intercom and sump sensors. CAT 5 will be pulled in for the CRINDS.
15. Bacfill all excavated areas and compact. 16. The electric line trench will be poured back in concrete at 10" thick. Quote includes 215SF of pavement demo and replacement. If more or less pavement is done unit price is \$11.75SF.
17. Set the CK supplied new master dispensers and re-set the satellite and master/DEF dispensers previously removed.
18. Furnish and install eight (8) sump sensors. At the existing VR 350 furnish and install an 8 input sensor module, pump sense module and I/O module. The diesel STP's will now need tied into the VR for if a sensor goes off the line is shut down.
19. At the gas islands, wire was pulled in thru the intercom conduit. Furnish and install five (5) sump sensors and program into the VR. Program for positive shut doFurnish and install eight (8) sump sensors. At the existing VR 350 furnish and install an 8 input sensor module, pump sense module and I/O module. The diesel STP's will now need tied into the VR for if a sensor goes off the line is shut down.
20. Furnish and install a new wireless intercom system for the gas dispensers.
21. Make the five (5) gas UDC's water tight. Remove the dispensers from the island and set aside. Power wash the the sumps. Remove the existing bulkhead fittings and install spllit repair fittings. Water test the sumps. Place the dispensers back onto the island.
21. After CK gets the line 3rd party line test done, meet the fire marshall on site for the final.
22. Clean up and open the site up for diesel sales. Replaced piping exceeds 20 feet or 50% of the total pipe run.


NOTE: A removal permit must be submitted for the piping that's being taken out

(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