



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

## Extended

### FOR OFFICE USE ONLY

Facility # 3006040  
Permit # 00952-2022UPG  
Request Rec'd 09/01/2022  
Amended Date  
Approval Date 9/1/2022 DS  
Permit Expires 9/1/2023

### 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 overfill prevention of underground storage tank(s) to the Office of the State Fire Marshal, Division of Petroleum and Chemical Safety.

<p><b>(1) OWNER OF TANKS</b> - 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><b>(2) FACILITY</b> - name and address where tanks are located:</p> <p>Circle K #4701214 405 South Main Street Canton, IL 61520</p> <p>Contact: Elizabeth Patterson (984) 389-1765</p>
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### **(3) UPGRADE OR REPAIR OF TANKS:**

- (a) *Number and size of tanks being upgraded or repaired: (TK # 8, 9) - 10,000, (TK # 10) - 5,000, (TK # 11) - 4,000*
- (b) *Type of tanks:*
- (c) *Type of piping: (TK # 8, 9, 10, 11) Piping - Fiberglass Double Wall Ameron Dualoy 3000/L from tanks to dispensers as shown in site plan, (TK # 8, 9, 10, 11) Piping - Other Steel Riser, (TK # 8, 9, 10, 11) Piping - Other Submersible Pump, (TK # 8, 9, 10, 11) Piping - Shear Valves, (TK # 8, 9, 10, 11) Piping - Flex Connector Steel, (TK # 8, 9, 10, 11) Piping - Single Wall STP/Tanktop Sump*
- (d) *Product to be stored in each tank: (TK # 8) - Gasoline - Regular, (TK # 9) - Gasoline - Mid-grade, (TK # 10) - Gasoline - Premium, (TK # 11) - Diesel Fuel*
- (e) *Type of leak detection being used:*
  - Tank: (TK # 8, 9, 10, 11) Leak Detect - Tank - Automatic Tank Gauging Veeder Root TLS 350*
  - Piping: (TK # 8, 9, 10, 11) Leak Detect - Piping - Discriminating Sump Sensor with positive shutdown in all submersible and dispenser sumps*
- (f) *Corrosion Protection being used:*
  - Tank:*
  - Piping:*
- (g) *Spill containment devices, piping, and dispenser containment devices: (TK # 8, 9, 10, 11) Spill Contain Device - Double Wall Spill Bucket*
- (h) *Overfill prevention devices: (TK # 8, 9, 10, 11) Overfill Prev Device - Overfill Drop Tube Valve*
- (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 overfill prevention to the OSFM prior to the work being performed. Both forms can be obtained at [www.sfm.illinois.gov](http://www.sfm.illinois.gov) or by calling (217)785-1020.

### **(5) SPECIAL CONTINGENCIES :**

2. Remove four (4) Submerged Turbine Pumps (STP) and properly dispose of each.
3. Disconnect electric, drain and plug product inlets and remove dispensers from islands. Set dispensers aside on site for reinstallation.
4. Saw cut and demo approximately 20' wide and 25' long trench to expose two (2) existing STP sumps nearest to building.
5. Saw cut and demo approximately 17' wide and 45' long trench to expose two (2) existing premium and diesel STP sumps. Load and dispose of excavated concrete. Remove four (4) existing sumps from tank tops.
6. Saw cut and demo a trench approximately 4' wide x 120' long across the existing dispenser locations. Saw cuts around dispensers 1/2 and 3/4

- will be 12' wide x 22' long. Saw cut around dispensers 5/6, 7/8, and 9/10 will be approximately 30' wide x 47' long.
7. Saw cut and demo a trench approximately 3' wide x 115' long along side building and 3' wide x 40' long behind the building to run new conduit for under dispenser and STP sump sensors. Load and dispose of excavated material properly.
  8. This quote included removal and replacement of approximately 3,292 square feet of concrete. Any additional removal and replacement of concrete will be billed via change order.
  9. Furnish licensed electrician to run new conduit and wires: two (2) 3/4" conduits to each STP sump (power and sump sensor), three (3) 3/4" conduits to each dispenser (power, CRIND/communication, and sump sensor), one (1) 3/4" conduit to transition sump (sump sensor), and four (4) 3/4" conduits (one to each ATG probe.) Electrician will install sumps sensors in ten (10) sumps.
  10. Continuance of work will be based on the soil analysis provided by a licensed environmental engineer. Environmental engineer to be provided by others.
  11. Blow the product out of the Total Containment piping back into the tanks. Remove all of the piping from the existing pipe chase.
  12. Remove existing pipe chase and dispose of properly.
  13. Furnish and install four (4) OPW 42" fiberglass, solid bottom tank sumps on each STP position on tanks.
  14. Furnish and install five (5) fiberglass sumps for Gilbarco Encore dispensers. Site will be going islandless once install is complete.
  15. Furnish and install NOV/Ameron FRP 2" double-wall pipe from tanks through piping trench to each dispensers.
  16. Furnish and install four (4) Red Jacket STP units. Three (3) 2hp motors will be installed to the unleaded, mid-grade, and premium tanks. One (1) 1.5hp motor will be installed to the diesel tank.
  17. Furnish and install proper bulkhead fittings to complete installation of piping in all sumps.
  18. Air test all piping for ILOFSM.
  19. Water test all new sumps for ILOFSM.
  20. Furnish and install eight (8) 4" risers to the tank tops.
  21. Furnish and install the following Emco Wheaton manholes to the tank tops: four (4) 42" composite, lay-in manholes over STP sumps, two (2) 5 gallon spill buckets for premium and diesel fills, five (5) 20" composite manholes over probes, interstitial risers and capped diesel vapor riser.
  22. Furnish and install Emco Wheaton fill adaptors, fill caps, product ID tags, and coaxial overfill drop tubes.
  23. Provide backfill for all excavated areas. Pour and set concrete. Site is going islandless, ensure to set dispenser height above grade to restrict water from entering the under dispenser sumps. 4" pipe bollards to be set 2' from the side of the dispenser and 2' from the canopy column at 36" apart.
  24. Reinstall previously removed dispensers back onto islands. Connect all new electric and piping. Purge and calibrate dispensers.
  25. Furnish and install the following Veeder-Root modules: one (1) eight input module for liquid sensors, one (1) two input/output interface module for pump sensing, and one (1) four input interface for STP monitoring. Furnish and install sump sensors in all UDC & STP sumps. Program existing TLS-350 for positive shutdown and sump sensors.
  26. CK to have Tanknology perform 3rd party tank and line testing.
  27. Paint exposed canopy columns gray.
  28. Meet ILOFSM on site for the final walkthrough.

Replaced piping exceeds 20 feet or 50% of the total pipe run.

**NOTES: Dispenser sumps must be installed and all dispensers must maintain at least 10' from all buildings and property lines**

**(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