

ORDINANCE 21-1989

Offered by Mayor Waszak

AN ORDINANCE ADOPTING CHAPTER 1515 OF THE FIRE PREVENTION CODE REGULATING STORAGE TANKS AND DECLARING AN EMERGENCY

BE IT ORDAINED by the Council of the Village of Richfield, State of Ohio:

SECTION 1. That there is hereby adopted in the Fire Prevention Code the new Chapter 1515 entitled "Storage Tanks" to read as follows:

"1515.01 INTENT AND PURPOSE.

The National Fire Prevention Code along with the rules promulgated by the American Insurance Association are hereby modified and amended by the enactment of this Chapter.

Air testing of tanks with product inside is prohibited. The piping systems shall be air tested to withstand at least 150% of its anticipated pressures or 100 pounds PSI whichever is greater. If such testing reveals that any leaking conditions exist, the permit shall be revoked, and the Fire Chief shall order the owner or operator from using such tanks or piping until the leaking condition is corrected. In the case where a dual occupancy may exist and there exists a leaking condition, all occupancies on the property will cease operations until the conditions are corrected and tested. A statement of the tests validity must be received by the Village of Richfield before reoccupying businesses. There must not exist any hazardous or dangerous condition to persons or property.

Daily inventory records for the underground storage of flammable and combustible liquids are mandatory and must be maintained for every underground storage tank within the Village of Richfield.

1. The procedures for inventory control are as follows:

- (a) The inventory referred to shall be based on the actual measurement of tank liquid levels daily. The written record of such testing shall include a computation of daily gain or

loss. The operator of the location shall be responsible for taking action to correct any abnormal loss or gain not explainable by spillage, temperature variations or other causes. Such abnormal loss or gain shall be reported promptly by the operator to the Village of Richfield.

- (b) The mere recording of pump meter readings combined with inshipment records shall not constitute adequate inventory records for the purpose of this rule.
- (c) Exemptions. The requirements for daily inventory records shall not apply in the following situations:
 - (i) Daily inventories are not required to be maintained when an installation is not in operation, except that during such a period when an installation is not in operation an inventory must be taken at least once every seven days.

2. The following actions shall be taken by the operator daily:

- (a) The operator shall record all meter totalizer readings, immediately guage and record all tank measurements and balance inventory and product transferred.
- (b) The operator shall record and make adjustments for all transfers of products occurring during guaging period.
- (c) The operator shall retain all of the aforementioned records.
- (d) The operator shall check all tanks for water. Experience will indicate whether daily checks are required or if they can be made less frequently. In any circumstances, the check for water must be made at least once a week. Tanks should be checked for water after a thaw and after a delivery.

In the event of unexplained inventory discrepancies and reasonable certainty that a leak exists, or if the daily inventory records are not maintained, the

Village of Richfield may require the procedures for locating and testing underground leaks and pipe test as presented in N.F.P.A. No. 329 and Sections 1301.7-7-28(A), (E), (I), (J) and (K) of the Ohio Administrative Code [Article 28 of the Ohio Fire Code] which codes and later amendments thereto are adopted herein by reference pursuant to O.R.C. Section 731.231.

1515.02 ABANDONED UNDERGROUND TANKS.

Any abandoned underground tanks must be removed from the ground within a period not to exceed 90 days. All piping will also be removed from the ground at the same time the tanks are removed. All tanks and piping shall be removed in a manner that meets the safety standards of the Village of Richfield Fire Department.

1515.03 NEW OCCUPANCIES.

New occupancies (change of ownership or change of lease) shall be required to have a hydrostatic test and adequate inventory records before any permits are issued. A copy of such test and inventories shall be received by the Fire Department and if there are no leaking conditions existing, a permit may be issued at that time.

1515.04 RECORDS.

Any leaking conditions, shortages of flammable and combustible liquids, spills into public sewers, drains and waterways shall be reported at once to the Village of Richfield. Procedures for locating and testing for underground leaks shall be as outlined in National Fire Prevention Association Pamphlet No. 329, "Underground Leakage of Flammable and Combustible Liquids". Storage tank inventory records for thirty (30) days prior to closing shall be made available to the Village of Richfield prior to the closing of said station.

1515.05 COST.

Cost incurred by the Village of Richfield which may entail Fire Department personnel, or their designated assistants, supplies, equipment, or work that may be ordered by the Fire Chief, shall be at the owners' expense. The corrections are to be made as soon as possible to protect life and property.

1515.06 INSTALLATION INSTRUCTIONS.

Underground steel storage tanks with STI-P3 or equal corrosion control system tanks shall bear U.L. Label and be in conformance with Underwriters Laboratories.

1. The excavation shall be free from material that may cause damage to the tank coating. (Care shall be taken during installation that foreign matter is not introduced into the excavation of backfill.)
2. The bottom of the excavation shall be covered with clean sand or gravel to a depth of one foot, suitably graded and leveled.
3. The excavation shall extend a distance of at least one foot around the perimeter of the tank.
4. An air test of the tank aboveground is required. Pressure should not exceed 5 pounds per square inch (PDIG) while a soap solution is applied to weld seams.
5. Before placing the tank in the excavation, all dirt clods and similar foreign matter shall be cleaned from the tank, and areas of coating damages shall be repaired with a suitable coating.
6. Equipment to lift the tank shall be of adequate size to lift and lower the tank without dragging and dropping to ensure no damage to the tank or the coating.
7. Tanks shall be carefully lifted and lowered by use of cables or chains of adequate length (not less than 45° included angle) attached to the lifting lugs provided. A spreader bar should be used where necessary. Under no circumstances use chains or slings around the tank shell.
8. Where anchoring by means of a concrete slab is required, tanks shall be separated from the slab by at least six inches of sand and gravel. Under no circumstances shall the tank be set directly on the concrete slab, nor shall the tank be placed on any other hard or sharp material that can cause deformation of the tank or damage to the coating.

9. Anchor straps and ground anchors, if required, shall be installed in such a manner that they do not damage and will be electrically isolated from the protective coating of the tank.
10. Backfill consisting of clean sand, gravel, or other noncorrosive inert materials shall be placed along bottom sides of tank by hand shoveling and tamping to ensure that the tank is fully and evenly supported around bottom quadrant.
11. The backfill shall be deposited carefully around tank and to a depth of at least one foot over tank to avoid damage to coating especially where tamping is required. (See N.F.P.A. 30 and state or local codes for depth of coverage required.)
12. Hydrostatic testing is required after installation, it is recommended that the pressure applied shall not be in excess of 5 pounds per square inch (PSIG) as measured at the top of the tank.
13. The plugs at unused tank openings shall be removed, a pipe compound shall be added and the plugs shall be reinstalled in the unused opening.
- 13.1 The di-electric bushings in STI-P3 tank, or equal to shall not be removed from the unused openings. The plugs in tank openings which are to be used should not be overtightened as this may cause the bushing to unscrew with the plug. Care shall be taken not to cross-thread or damage the nonmetallic bushings when replacing plugs or installing required tank piping.

1515.07 INTERIOR COATING AND REPAIR.

Procedures for the interior coating and repair of leaking and/or deteriorated underground liquid petroleum tanks (both steel and nonmetallic).

1. The local fire authority shall determine whether or not the repair of leaking and/or deteriorating underground liquid petroleum tanks shall be permitted within its jurisdiction in the manner prescribed in paragraphs 2 to 5 below.
2. Manufacturers desiring to have their product used in the Village of Richfield shall register the specifications for the internal coating system

for the repair of liquid petroleum with the Village of Richfield. The specifications shall clearly describe the composition of the product, strength, limitations on use, preparation procedures, application procedures, quality control techniques, curing time and temperatures, field thickness testing procedures, field hardness testing procedures, is repairable. This information, along with the results of the standard tests, shall be signed and sealed by a registered professional engineer.

3. Each manufacturer who has registered an internal coating system must submit to the Village of Richfield a list of qualified applicators. It is the responsibility of the manufacturer to keep this list current. The list shall indicate that the applicator is qualified to seal tanks, non-metallic tanks or both.
4. The applicator shall inform the following officials of the location of each project in the following manner:
 - (a) The local fire authority shall have in its possession a written notice stating the location of the project and the applicator's anticipated timetable for each stage of the project, prior to the commencement of the project. A copy of such written notice shall be mailed to the State Fire Marshall simultaneously with its delivery to the local fire authority.
 - (b) Any applicator failing to make proper notification of the project location will be removed, for a period of 6 months, from the qualified applicator list on file with the Village of Richfield. Reinstatement can be accomplished only by the manufacturer resubmitting the applicator's name after the 6 month period has elapsed.
 - (c) A current "Certificate of Insurance" covering the liability of the applicator shall be filed with the Village of Richfield.
 - (d) A sample of the "Application for Tank Repairs" may be obtained from the Village of Richfield.

5. A Certificate of Performance shall be utilized as follows:

(a) A "Certificate of Performance" on each field application shall be submitted to the Village of Richfield. The certificate shall be signed by the qualified applicator and will confirm that the tank preparation and product application complies with the sealant manufacturer's specifications which are registered with the Village of Richfield and State Fire Marshall's Office.

(b) A sample of the "Certificate of Performance" may be obtained from the Village of Richfield.

1515.99 PENALTY.

Any person who violates any of the provisions of the Fire Prevention Code herein adopted or fails to comply therewith, or violates or fails to comply with any order made thereunder, or builds in violation of any detailed statement of specifications or plans submitted and approved thereunder, or any certificate or permit issued thereunder, and from which no appeal has been taken, or fails to comply with such an order as affirmed or modified by the Village of Richfield Fire Department or by a court of competent jurisdiction, within the time fixed herein, shall severally for each and every such violation and noncompliance, respectively, be guilty of a misdemeanor, punishable by a fine of not less than \$500 for the first offense, and \$1,000 for each offense thereafter. Each day may be a separate offense under Section 1515.04.

The application of the penalty herein provided shall not be held to prevent the enforced removal of prohibited conditions."

SECTION 2. This Ordinance is hereby declared to be an emergency measure necessary for the immediate preservation of the health, safety and welfare and for the further reason to regulate underground tanks and provided this Ordinance receives the affirmative vote of two-thirds of the members elected or appointed, it shall

take effect and be in force from and after its approval by the Mayor; otherwise, it shall take effect and be in force from and after the earliest date provided by law.

Passed: 6/6/89

David W. Howard
President of Council

Raymond L. M... Jr
Mayor

6/6/89
Dated

ATTEST:

Mary L. Hegley
Clerk of Council