

REG'S AND CODES REQUIREMENTS FOR INSTALLING AG TANKS
PRIVATE FLEET VEHICLE MOTOR FUEL-DISPENSING FACILITY
GUIDELINE ONLY

FIRST, THERE ARE SEVERAL CODES INVOLVED IN MAKING A DECISION. YOU HAVE THE OHIO FIRE CODE, THE FEDERAL EPA REG'S AND THE LOCAL FIRE DEPT WHERE THE TANK IS GOING TO BE INSTALLED.

THE LOCAL FIRE OFFICIAL HAS ULTIMATE DECISION. IF THEY DON'T DEAL WITH PERMITTING AND TANK INSTALLATIONS THEN THE DECISION REVERTS TO THE STATE FIRE MARSHAL'S OFFICE CODE ENFORCEMENT BUREAU.

TANKS MUST BE A LISTED TANK (UL) FOR THE PURPOSE OF STORING FLAMMABLE AND COMBUSTIBLE LIQUIDS.
(NFPA 30 SEC.21.4 & OFC 2306.2.3)

TANKS MUST BE INSTALLED IN ACCORDANCE WITH THE OHIO FIRE CODE CHAPTERS 23 AND 34 AND THE REQUIREMENTS IN NFPA 30 AND 30A AND RULE 1301:7-7-80 OF THE OAC.

SECURITY:

TANKS MUST BE SAFEGUARDED FROM PUBLIC ACCESS. 6'-0" HIGH CHAIN LINK FENCE WITH LOCKABLE GATE 3' FROM THE TANK X 6' HIGH, UNLESS PROPERTY IS FENCED AND GATED. **(OFC 2306.3)**

This would not be required for agricultural use if the individual capacity of the tank is 1,100 gallons or less – only the fill cap would be required to have a locking closure device.

MUST HAVE EMERGENCY POWER CUT OFF SWITCH, SHALL BE LOCATED NO LESS THAN 20' AND NO MORE THAN 100' FROM DISPENSER. **(OFC 2303.2)**

GUARD POST (BUMPER POST) FOR PROTECTION FROM VEHICLE IMPACT. **(OFC 2306.4 & 312)**

PERMITS:

PERMITS ARE REQUIRED FOR ALL FUEL STORAGE TANKS WITH A CAPACITY OF 60 GALLONS AND LARGER.
(OFC 5701.4 and 2301.2)

EXCEPTION 1 WHICH INCLUDES RESIDENTIAL HEATING OIL. SECTION 06 IS FOR SPECIAL OPERATIONS (CONSTRUCTION SITES AND FARMS). **(OFC 5701.1)**

THE PERMIT APPLICATION MAY BE SUBMITTED BY THE OWNER, OPERATOR, INSTALLER OR OTHER INTERESTED PERSON.

PAD DESIGN AND ELECTRICAL REQUIREMENTS NEED TO BE REVIEWED BY THE BULDING CODE DEPT.

TANK CAPACITY:

TANKS SHALL NOT EXCEED 12,000 GALLONS INDIVIDUAL CAPACITY OR 48,000 AGGREGATE CAPACITY. **(OFC 2306.2)**

*Tanks are limited to 1,100 gallons (no aggregate) for agricultural use if the installation is to be considered a special operation. **(OFC 5706)***

SECONDARY CONTAINMENT:

TANKS MUST BE EITHER DOUBLE WALL TANKS OR MUST BE INSIDE A CONTAINMENT DIKE. (OFC 2306.5)

EQUIPMENT REQUIREMENTS:

OVERSPILL CONTAINMENT: (OFC 2306.6.2.6)

ALL TANKS WITH A CAPACITY OF 60 GALLONS OR MORE MUST HAVE A SPILL CONTAINER OF AT LEAST 5 GALLONS.

NO EXCEPTIONS. (OFC 2306.6.2.6)

OVERFILL PREVENTION: (OFC 2306.6.2.3 & OFC 5704.2.7.5.8)

EVERY TANK IS REQUIRED TO HAVE AN OVERFILL PREVENTION DEVICE INSTALLED AT THE FILL PORT. IN ADDITION, AN ALARM SHALL SOUND AT 90% TANK CAPACITY AND SHALL SHUT OFF THE FLOW OF PRODUCT TO THE TANK AT 95% CAPACITY.

EXEMPTION: OUTSIDE TANKS OF 1,320 GALLONS OR LESS.

NORMAL VENTING: (OFC 5704.2.7.3)

ALL TANKS FOR FUEL STORAGE ARE REQUIRED TO HAVE A PROPERLY SIZED NORMAL VENT FOR INBREATHING AND OUTBREATHING. VENT SHALL TERMINATE AT MINIMUM 12'-0" ABOVE GRADE.

EMERGENCY VENTING: (OFC 2306.6.2.3 & OFC 5704.2.7.4)

EMERGENCY VENTS PROPERLY SIZED TO RELIEVE INTERNAL PRESSURE IN THE EVENT OF A SUDDEN INCREASE IN INTERNAL PRESSURE SUCH AS WOULD BE CAUSED BY FIRE.

GAUGING: (OFC 5704.2.7.4.1.1)

THE FILLING PROCEDURE SHALL REQUIRE THE PERSON FILLING THE TANK TO BE ABLE TO DETERMINE THE TANK CAPACITY AND THE GALLONAGE REQUIRED TO FILL THE TANK TO 90% CAPACITY.

DOUBLE WALL TANKS SHOULD BE EQUIPPED WITH AN INTERSTITIAL MONITOR TO DETERMINE THE INTEGRITY OF THE PRIMARY TANK.

SET BACK DISTANCES:

DEPENDING ON THE TYPE OF TANK PROPOSED FOR USE, THE FOLLOWING DISTANCES SHALL BE MET:

<u>FIRE-RESISTANT TANKS</u>		<u>NON-FIRE-RESISTANT TANKS*</u>
50 FEET	FROM PROPERTY LINE	100 FEET
25 FEET	FROM IMPORTANT BUILDINGS	50 FEET
25 FEET	FROM A PUBLIC WAY	50 FEET
NO REQUIRED SEPARATION	FROM A DISPENSER	50 FEET
<u>PROTECTED TANKS (UL-2085)</u>		
<u>LESS THAN OR EQUAL TO 6,000 GALLONS</u>		<u>GREATER THAN 6,000 GALLONS</u>
15 FEET	FROM PROPERTY LINE	25 FEET
5 FEET	FROM IMPORTANT BUILDINGS	15 FEET
15 FEET	FROM A PUBLIC WAY	25 FEET
NO REQUIRED SEPARATION	FROM A DISPENSER	NO REQUIRED SEPARATION

*NO CLASS I LIQUIDS

Agricultural use tanks, no matter what type of tank, are all required to be located no less than fifty (50) feet from any building. The dispenser can be located on the tank. (OFC 5706)

FIRE EXTINGUISHERS:

AT LEAST ONE PORTABLE FIRE EXTINGUISHER WITH A MINIMUM 2-A:40-B:C SHALL BE LOCATED WITHIN 75 FEET OF TANK. **(OFC 2305.5)**

ALWAYS REMEMBER THAT THE MOST STRINGENT OF THE RULES WILL BE THE ONE TO BE APPLIED TO A GIVEN SITUATION. EXAMPLE: EPA SAYS 2 FEET BETWEEN TANKS, FIRE CODE SAYS 3 FEET. THE FIRE CODE TAKES PRECEDENT.

SOME OTHER COMPLIANCE MATTERS CONCERNING THE FARMING COMMUNITY:

SINCE FARMS ARE SITES THAT NORMALLY DO NOT ALLOW PUBLIC ACCESS THE REQUIREMENTS FOR THE FENCING AND BOLLARD POST ARE USUALLY NOT REQUIRED.

PUMPING EQUIPMENT FOR FARMS MAY BE INSTALLED DIRECTLY ONTO THE TANK. **(OFC 5706.2.5.1.1)**

FILL LINES MUST BE EQUIPPED WITH A LOCKING CLOSURE DEVICE. **(OFC 3406.2.4.1)**

FARM TANK LOCATION MUST BE 50 FEET FROM BUILDINGS, HAYSTACKS OR OTHER COMBUSTIBLE STORAGE. **(OFC 5706.2.4.3)**

PERMIT COST:

THE COST FOR A PERMIT TO INSTALL AN ABOVEGROUND TANK FROM THE STATE FIRE MARSHAL'S OFFICE IS \$100.00 FOR THE APPLICATION TO BE PAID AT THE TIME OF APPLICATION. THERE IS ALSO AN INSPECTION FEE AFTER THE TANK OR TANKS ARE INSTALLED WHICH IS \$100.00. IF THE INSPECTOR HAS TO RETURN FOR A REINSPECTION THEN THERE IS A \$75.00 FEE FOR EACH TIME THE INSPECTOR RETURNS. A TANK DRAWING AND CUT SHEET ON THE ACCESSORIES TO BE INSTALLED NEEDS TO BE SUBMITTED ALONG WITH THE PERMIT APPLICATION.

SUPPORT PADS AND ELECTRICAL REQUIREMENTS NEED TO BE REVIEWED BY THE BUILDING CODE DEPARTMENT. I AM UNSURE OF THE COST FOR THIS PART OF THE PERMIT.

THIS LIST IS BY NO MEANS TO BE CONSIDERED ALL INCLUSIVE. IT IS IMPORTANT THAT YOU CHECK WITH YOUR LOCAL AUTHORITY HAVING JURISDICTION TO DETERMINE THE LOCAL RULES FOR YOUR AREA.