

| RULE NUMBER | DESCRIPTION OF REGULATORY RESTRICTION | STATUTE UNDER WHICH THE REGULATORY RESTRICTION WAS ADOPTED | IS THE REGULATORY RESTRICTION EXPRESSLY OR SPECIFICALLY REQUIRED BY STATE OR FEDERAL LAW? | IS A LAW CHANGE REQUIRED IN ORDER TO REMOVE THE RESTRICTION? |
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| OAC 901:5-1-01(A) | No manufacturer or distributor of fertilizer shall use any term which is defined in the official publication of the association of american plant food control officials as adopted in rule 901:5-1-02 on the label of any fertilizer unless the fertilizer complies with the standard for such terms which are stated in said publication. | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-1-01(B) | No manufacturer or distributor of a fertilizer shall include the name of any plant nutrient element: (1) Other than nitrogen, phosphorus and potassium on the label of a fertilizer other than a specialty fertilizer, unless the percentage guaranteed equals or exceeds the percentage required in the following table: (2) Which is not named in paragraph (B)(1) of this rule on the label of any such fertilizer. | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-1-01(C) | Each manufacturer or distributor of any fertilizer which bears on its label the name of any element which is listed in paragraph (B) of this rule, shall: | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-1-04(A) | No person shall distribute any fertilizer from any bulk storage facility unless such facility provides access for sampling each fertilizer stored therein. | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-1-04(B) | No person shall distribute a fertilizer from any bulk storage facility to more than one consumer unless he: | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-1-04(C) | Each manufacturer or distributor of fertilizer shall include the date of delivery on each shipping invoice or delivery ticket for each shipment of bulk fertilizer to an individual who is not licensed pursuant to ORC 905.32. | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-1-05(A) | No person shall distribute any fertilizer other than by net weight unless the director has approved the device which is used to measure the fertilizer. | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-1-05(C) | Each distributor shall include on the shipping invoice or delivery ticket for any fertilizer which is delivered by volume | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-1-06(B) | (B) Per cent allowances of fertilizer materials. [TABLE] | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-1-06(B) | For N guarantees above 32% the allowance shall be 0.88. | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-1-06(B) | For P2O5 guarantees above 52% the allowance shall be 1.10. | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-1-06(B) | For K2O guarantees above 62% the allowance shall be 1.80. | ORC 905.44(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-01(R) | (R) "Generally accepted engineering standards and practices" means the usual and customary principles and methods employed by engineers for the analysis, design and construction of permanent storage vessels and piping systems. Such standards and practices shall include, where applicable, the standards of American petroleum institute, American water works association, plastic pipe institute, American society of mechanical engineers, American society for testing and materials international, and American national standards institute. | ORC 905.44, ORC 905.40 | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-02(A) | No person shall construct or cause to be constructed any new permanent storage vessel unless: | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-02(B) | The director shall notify each applicant within thirty days after receipt of the construction plans for new storage vessels as to approval or disapproval of the submitted construction plans; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-02(C) | All permanent storage vessels, appurtenances, and secondary containment facilities either existing or under construction at the effective date of rules 901:5-2-01 to 901:5-2-07 of the Administrative Code shall meet the requirements of paragraphs (A)(2) and (A)(3) of this rule by January 1, 1996; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-02(D) | No person shall put any newly constructed permanent storage vessel into service, or continue in service past January 1, 1996 any permanent storage vessel either existing or under construction at the effective date of these rules unless the permanent storage vessel, its appurtenances and secondary containment facilities meet the requirements of paragraphs (A)(2) and (A)(3) of this rule; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-02(E) | No person shall continue in service any pit storage structure past January 1, 1996 unless it meets all of the following: | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-02(F) | No person shall construct or cause to be constructed any new pit storage facilities. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(A)(1) | (A) Permanent storage vessels: (1) Shall be constructed entirely of materials recommended by the manufacturer or specified in applicable standards for use with the type of liquid to be stored in the vessel; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(A)(2) | (2) Shall be designed according to generally accepted engineering standards and practices for liquid storage vessels and n; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(A)(2) | shall take into consideration the full hydrostatic head pressure, pressure buildup from pumps and compressors, and other mechanical stresses to which the storage vessel may be subject in the foreseeable course of operation | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(A)(3) | (3) Shall be equipped with a lockable liquid level gauging device unless another means of reliably and readily measuring the liquid level of the vessel has been approved by the director; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(A)(4) | (4) Shall be secured as necessary to prevent flotation or instability as a result of liquid accumulation within the secondary containment facility; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(A)(5) | (5) Shall have stenciled on them in a location clearly visible in letters no less than four inches in height the design capacity of the vessel and the identity of its contents; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(A)(6) | (6) Shall be equipped with a lockable shutoff valve. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-03(B)(1) | (B) Appurtenances of permanent storage vessels: (1) All appurtenances necessary for loading and unloading shall be located within a secondary containment facility or have their own means of secondary containment; except hoses and permanent above-ground piping meeting the requirements of paragraphs (C)(1)(a) to (C)(1)(e) of rule 901:5-2-11 of the Administrative Code. However, the pipe specified in paragraph (C)(1)(e) of rule 901:5-2-11 of the Administrative Code does not have to be coated and wrapped. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(B)(2) | (2) All hoses used for loading and unloading shall be equipped with shut-off valves at each end; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(B)(3) | (3) All pipes and hoses shall be adequately supported to prevent sagging and | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(B)(3) | shall be protected against risk of damage by vehicles engaged in loading and unloading; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(B)(4) | (4) All appurtenances shall be made entirely of materials recommended by the manufacturer or specified in applicable standards for use with the type of liquid they will carry and the type of materials used in the vessels and other appurtenances. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(C)(1) | (C) Secondary containment facilities for permanent storage vessels: (1) Shall have a volumetric capacity of not less than ten per cent greater than the volume of the largest storage vessel within the secondary containment facility. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(C)(1) | Volumetric capacity shall be calculated by multiplying the surface area enclosed by the dike by the height of the dike minus the volume of the portions of the other permanent storage vessels within the dike which would be submerged; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(C)(2) | (2) The base of any permanent storage vessel over fifteen feet in height shall be no less than four feet from the inside base of the secondary containment facility dike; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-03(C)(3) | (3) The dike and surface area enclosed within it shall be constructed of materials compatible with the material they are to contain, be designed to withstand a full hydrostatic head of any discharged liquids, have a resistance to vertical and horizontal liquid movement that does not exceed a rate of 1 x 10 ⁻⁵ centimeters per second (thirty-five hundredths of an inch per day) for the liquids they are to contain and have no open drains. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-03(D) | Notwithstanding the provisions of rule 901:5-2-02 of the Administrative Code, an owner of a permanent storage vessel existing on the effective date of this rule, other than one erected on site, which is located on a farm shall have until January 1, 2007 to comply with the requirements of paragraphs (C)(1), (C)(2), and (C)(3) of this rule. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(A)(1) | (A) Every owner of one or more permanent storage vessels shall: (1) Once each week: (a) Check all liquid level gauging equipment to ensure it is functioning properly; (b) Check roof drains for obstructions; (c) Check vents and pressure-relief devices for obstructions; (d) Check electrical grounding lines and connections for integrity; (e) Visually inspect the dike of the secondary containment facility for erosion, cracks and deterioration; (f) Check and record the liquid level of each permanent storage vessel when it contains any product; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(A)(2) | (2) Once each month: (a) Visually inspect all exterior surfaces, welds, rivets/bolts, and foundations of permanent storage vessels; (b) Inventory all spill control equipment and emergency response equipment. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-04(A)(3) | (3) Once every twelve months, for vessels built to the API 650 standard, inspect the exterior of storage vessels in accordance with the API 653 inspection check list, or if the vessel is built to exceed the API 650 standard, in accordance with the inspection protocols and standards submitted pursuant to paragraph (A)(1)(b)(ii) of rule 901:5-2-10 of the Administrative Code: | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(A)(4) | (4) For permanent storage vessels other than those erected on site, once every five years inspect the interior of the storage vessel in accordance with the API 653 inspection checklist. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(A)(5) | (5) For permanent storage vessels equipped with a bladder, the bladder shall be inspected: (a) Within two years of the effective date of this rule if the bladder was installed prior to the effective date of this rule, and every five years thereafter; or, (b) For bladders installed after the effective date of this rule, two years after installation and every five years thereafter; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(A)(5)(c) | (c) Notwithstanding paragraphs (A)(5)(a) and (A)(5)(b) of this rule, whenever a bladder is repaired, altered, or replaced it shall be inspected two years after repair, alteration, or replacement and every five years thereafter. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(B) | (B) Every owner of one or more permanent storage vessels shall: (2) Grade and drain permanent storage vessel foundations to insure that moisture and debris do not accumulate at the base of the vessel; (3) For all permanent storage vessels set on a concrete foundation, seal the vessel floor and foundation interface to provide a moisture barrier; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-04(B)(1) | (B) Every owner of one or more permanent storage vessels shall: (1) Maintain the permanent storage vessels, secondary containment facilities, and hoses, pipes, and fittings to the extent necessary to ensure they are free from rust, corrosion, galling, cracking, or any other structural deterioration or damage which affects their strength or watertight integrity. All valves, pumps and other mechanical appurtenances shall be maintained in working order; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(C) | All welded repairs to permanent storage vessels shall be made in accordance with the vessel's original design specifications. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(C) | When the original design specifications are unknown, weld repairs shall be made in accordance with API 653 and | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(C) | shall comply with the impact toughness requirements of API 650; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(D) | All materials used in the repairs of permanent storage vessels shall conform to the vessel's original design specifications. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(D) | When the original design specifications are unknown, the repair material shall conform to the requirements of API 653 and the impact toughness requirements of API 650. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(E) | All stress analysis of a permanent storage vessel done to determine the safety of a vessel shall be done using a specific gravity of 1.50. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-04(F) | All permanent storage vessels erected on site that are dismantled and reconstructed at a different site shall be dismantled and reconstructed in accordance with the API 653 standard. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(A) | During all operations involving the transferring or mixing of liquid fertilizer carried on at a storage facility, a suitable means of containment including, but not limited to, collection pans, pads, and dikes shall be placed under each valve, coupling, and pump located outside a secondary containment facility. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-05(A) | Each collection device must be able to contain any foreseeable leaks or spills which may occur during transferring or mixing of liquid fertilizer. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(B) | An individual familiar with the operation of the mechanical appurtenances in use at the facility and familiar with the procedures to be used for control and recovery of discharges shall be present during all transfer and mixing operations. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(C) | All transfer and mixing operations shall be stopped in the event a discharge occurs and | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(C) | may not be resumed until the cause of the discharge is corrected and all discharges are recovered. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(D) | All wash water and rinsates from equipment cleaning and fertilizer handling or any other operation carried on at a storage facility shall be collected using a containment method, device, or structure adequately sized to prevent spillage onto unprotected areas. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(D) | No collected liquid or material shall be discharged to any watercourse, storm sewer, field tile, or sanitary sewer. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(D) | All rainwater collected within the diked area must be shown not to be in violation of current water quality standards before it can be disposed of through field tile, sewer, or any watercourse. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(E) | All permanent storage vessels which are or will be out of service for more than six months due to deterioration or leaks, or out of service for more than two years for any reason shall be thoroughly cleaned, | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(E) | all hatches shall be left open, | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(E) | and valves and connections shall be severed and sealed. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(F) | No permanent storage vessel shall be filled with any liquids other than those which are compatible with the materials used in the construction of the permanent storage vessel nor filled beyond the capacity for which it is designed, taking into account the density of the liquid being stored and thermal expansion during storage. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-05(G) | Non-pressurized nurse tanks shall not be used for storage of liquid fertilizer for more than thirty consecutive days. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-05(H) | No person shall fill or cause to be filled any permanent storage vessel which fails to meet the requirements of Chapter 901:5-2 of the Administrative Code. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-06(A)(1) | (A) Every owner of a permanent storage vessel: (1) Shall prepare a written discharge response plan for the storage facility. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-06(A)(1) | The operator shall keep the plan current at all times. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-06(A)(1) | A copy of the plan shall be kept readily available at the storage facility and at the nearest local office from which the storage facility is administered, | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-06(A)(1) | and shall be available for inspection and copying by the department. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-06(A)(1) | The plan shall include: (a) The identity and telephone number of the persons or agencies who are to be contacted in the event of a discharge, including persons responsible for the stored fertilizer; (b) An identification of each type of liquid bulk fertilizer stored at the storage facility; (c) An identification, by location, of every storage container located at the storage facility, and the type of liquid bulk fertilizer stored in each storage container; (d) For each type of liquid bulk fertilizer stored at the facility, the procedures to be used in controlling and recovering, or otherwise responding to a discharge; (e) Procedures to be used in disposing of a recovered discharge; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-06(A)(2) | (A) Every owner of a permanent storage vessel: . . . (2) Shall have available at each facility: (a) Ready access to pumps and recovery containers of sufficient size and capacity to recover any discharges; (b) A sufficient quantity of absorbent materials suitable for the control and cleanup of smaller discharges; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-06(A)(3) | (A) Every owner of a permanent storage vessel: . . . (3) Shall train a suitable number of persons employed at the facility in discharge response procedures in accordance with the plan required under paragraph (A) of this rule. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-06(B) | Discharges at a storage facility shall be promptly recovered, to the maximum extent practical. Pumps, recovery equipment, | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-06(B) | and recovery containers shall be readily available. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-06(C) | Spills which occur outside containment structures shall be reported by telephone to the national response center and the Ohio environmental protection agency office of emergency management immediately after the discharge is discovered. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-06(C) | All applicable local, state, and federal spill reporting requirements shall be met. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-07(A)(1) | (A) The following records shall be prepared and maintained on file at every storage facility, or at the nearest local office from which the storage facility is administered: ; . . . | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-07(A)(1) | (1) A record of all discharges at the storage facility, including the date and time of discharge, the type of liquid bulk fertilizer discharged, the volume of the discharge, the cause of the discharge, any action taken to control or recover the discharge, and the method of disposal of any recovered discharge. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-07(A)(1) | The discharge record shall be completed on the day the discharge is discovered | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-07(A)(1) | and shall be promptly updated to show measures taken to control, recover, use, or dispose of the discharge | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-07(A)(2) | (2) A record of the liquid level of each permanent storage vessel measured in compliance with paragraph (A)(1)(f) of rule 901:5-2-04 of the Administrative Code; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-07(A)(3) | (3) A record of all repairs and maintenance work performed on each permanent storage vessel and secondary containment facility. The record shall note the date and nature of the repair or maintenance work done. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-07(B) | In addition to the records required under paragraph (A) of this rule; whenever a permanent storage vessel erected on site, its appurtenances or secondary containment facility , is evaluated, altered, or reconstructed the following information shall be made a part of the record maintained at the storage facility or the nearest local office from which the storage facility is administered. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-07(C) | All records required by this rule shall be maintained for a period of five years. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-07(D) | (D) The owner of an underground piping system shall maintain the following records for the life of the piping system and make them available for inspection and copying by the department upon request. The records shall include: (1) Type of pipe and design or working pressure; (2) Method for blinding off the test section and air bleed method, if applicable; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-07(D)(3) | (3) A record of each hydrostatic test conducted, which shall include all of the following: (a) The name of the system's owner and operator; (b) The location address of the system; (c) The name and business address of the person performing the hydrostatic test; (d) The date, start and stop times for each test; (e) The identity of each specific pipe on which said test is performed; (f) Test pressures and adjustments made during test; (g) Length of each pipe tested; (h) Amount of pressure lost; (i) Damage caused by test and location of damage; (j) Type of liquid used; and (k) Proof of calibration of test gauge. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-07(D)(4) | (4) A label shall be kept adjacent to the pressure application tap, | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-07(D)(4) | (Label kept adjacent to the pressure application tap) Which shall show the: (a) Test interval required (i.e. twice per calendar year, at a minimum of six month intervals); and (b) The hydrostatic test pressure. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-08(A) | Dry fertilizer materials and nonliquid fertilizer shall, if stored for more than thirty days in any calendar year, be stored inside a structure or device having a roof or cover, sidewalls, and a base sufficiently impermeable to prevent contact with precipitation and surface water. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-09(A) | Neither the owner nor any other person shall use a permanent storage vessel erected on site and existing on the effective date of this rule to hold liquid fertilizer unless the provisions of this rule have been complied with. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-09(B) | (B) Owners of existing permanent storage vessels erected on site shall, no later than January 1, 2003, have a baseline inspection done on each vessel by an authorized inspector to determine if the vessels comply with the API 650 standard. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-09(B)(1) | (1) The baseline inspection report for each existing permanent storage vessel erected on site that complies with the API 650 standard shall be kept on the property where the vessel is located. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-09(B)(2) | (2) The baseline inspecton report for each existing permanent storage vessel erected on site that does not comply with the API 650 standard shall be kept on the property where the vessel is located. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-09(B)(2) | The owner shall also notify the department of agriculture of the non-compliance and provide the department with a copy of the baseline inspection report. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-09(C) | Owners of an existing permanent storage vessel erected on site that does not comply with the API 650 standard shall not continue to use the vessel for the storage of liquid fertilizer unless within sixty days of date of issuance of the base line inspection report: | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-09(C)(3) | Owners shall provide the department with a copy of each written verification issued. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-09(D) | After the initial base line inspection is issued for an existing permanent storage vessel erected on site, a new base line inspection shall be done every ten years to determine compliance with this rule. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-09(D) | If an authorized inspector determines that a shorter inspection interval is necessary, subsequent base line inspections shall be conducted in accordance with that interval. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(A) | After January 1, 2002, no person shall either erect on site or cause to be erected on site a new permanent storage vessel unless; (1) It is built to: (a) The API 650 standard; or (b) Exceed the API 650 standard. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(A)(1)(b) | If the vessel is to be built to exceed the API 650 standard, plans and specifications for the vessel shall be submitted to the director prior to installation of the vessel. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(A)(1)(b) | The plans and specifications submitted under this section shall include documentation prepared by a professional engineer registered under Chapter 4733. of the Revised Code | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(A)(1)(b)(ii) | (ii) The inspection schedule, protocol, and standards against which the integrity of the permanent storage vessel shall be measured during those inspections over the lifetime of the vessel; | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(B) | The director shall notify each applicant within thirty days after receipt of the plans and specifications for the containment facility that they have either been approved or disapproved. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(C) | Before the vessel may be used for liquid fertilizer storage the owner shall obtain a written verification from an authorized inspector stating that the vessel, as installed, is in compliance with the paragraph (A)(1) of this rule. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(C) | The written verification shall be kept on the property where the vessel is located | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(C) | and a copy shall be submitted to the Ohio department of agriculture. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(D)(1) | (D) For permanent storage vessels: (1) Built to API 650 standards, after the date an initial written verification of compliance is issued for a new permanent storage vessel erected on site the vessel shall be reinspected every ten years in accordance with and | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-10(D)(1) | shall comply with the requirements of: (a) Paragraph (B) of rule 901:5-2-09 of the Administrative Code; or, | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(D)(1)(b) | (b) If a permanent storage vessel erected on site does not meet the API 650 standard, the owner of the vessel shall obtain from the authorized inspector written verification indicating non-compliance and listing each item not in compliance with the API standard 650. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(D)(1)(b) | The owner shall notify the department of the non-compliance and | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(D)(1)(b) | neither the owner nor any other person shall use the vessel to hold liquid fertilizer until the vessel is brought into compliance and a written verification is issued by an authorized inspector stating the vessel is in compliance with the API 650 standards. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(D)(1)(b) | When a written verification of compliance is issued it shall be kept on the property where the vessel is located | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(D)(2) | Built to exceed API 650 standards, after the date an initial written verification of compliance is issued for a new permanent storage vessel erected on site, the vessel shall be reinspected in accordance with the schedule, protocol and standards for inspection submitted pursuant to paragraph (A)(1)(b)(ii) of this rule | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(D)(2) | If the vessel does not meet the standard to which it was built, the owner of the vessel shall obtain from the authorized inspector written verification indicating that non-compliance and listing each item not in compliance with the standard documented under paragraph (A)(1)(b) of this rule | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(D)(2) | The owner shall notify the department of the non-compliance and | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(D)(2) | neither the owner nor any other person shall use the vessel to hold liquid fertilizer until the vessel is brought into compliance and a written verification is issued by an authorized inspector stating the vessel is in compliance with the standards under which it was built | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-10(D)(2) | When a written verification of compliance is issued it shall be kept on the property where the vessel is located. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-10(D)(2) | If an authorized inspector determines that a shorter inspection interval is necessary, subsequent inspections shall be conducted in accordance with that interval. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11 | The owner or operator of an underground piping system is responsible for and shall ensure that all new underground liquid fertilizer piping systems comply with this rule and | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11 | shall maintain all records required by paragraph (D) of rule 901:5-2-07 of the Administrative Code. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11 | If the underground piping system is to be used and designed as pressure piping without secondary containment, a professional engineer must certify, by letter to the department, that the underground piping system as designed meets the following requirements: | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(A) | (A) All underground piping systems in place prior to the effective date of this rule shall be permitted to continue in operation until such time that any underground component of the system requires repair, upgrade, modification or replacement, | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(A) | at which time the entire underground portion of the system shall comply with the requirements of this rule. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(A)(1) | (1) All systems, whether existing or new, shall comply with this rule by January 1, 2012. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(B) | The department shall be notified by the owner prior to: (1) Beginning construction of a new liquid fertilizer underground piping system; or (2) Conducting repair, upgrade, modification or replacement of any existing fertilizer underground piping system | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-11(C)(1) | (C) All underground piping systems shall be constructed as follows: (1) Piping is permitted without secondary containment provided that one of the following ASTM international standards are met: (a) The piping is made of 304 or 316 stainless steel pipe per ASTM A 312 minimum schedule 10; or (b) Chlorinated poly vinyl chloride (CPVC) plastic pipe per ASTM F 442 and the DR not to exceed 17; or (c) High density polyethylene (HDPE) plastic pipe per ASTM D 3350-05 with a DR not to exceed 17; or (d) Polyvinyl chloride (PVC) plastic pipe per ASTM D 2241-05 and DR not to exceed 17; or (e) Carbon steel pipe per ASTM A 53 minimum schedule 40, coated and wrapped; or (f) Carbon steel pipe per ASTM A 53 minimum schedule 80, unprotected. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(C)(2) | (2) All appurtenances shall be made of materials recommended by the manufacturer or materials specified in applicable standards for the type of liquid carried. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(C)(3) | (3) Generally accepted engineering standards and practices, as defined in paragraph (R) of rule 901:5-2-01 of the Administrative Code, shall be followed for any pipe material used. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(C)(3) | Such standards and practices shall also be followed with regard to the trench, soil, backfill, pipe design, connections, secondary containment, supports, and adaptations to facilities for hydrostatic testing. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(C)(4) | (4) The underground piping system shall be constructed so that hydrostatic testing can be performed. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(D)(1) | (D) Hydrostatic testing: (1) Hydrostatic testing shall be done to ensure the integrity of any underground piping system. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(D)(2) | (2) Hydrostatic testing shall be conducted twice per calendar year at a minimum of six month intervals; or | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(D)(3) | (3) Hydrostatic testing shall be conducted upon request of the department if the department has reason to believe that the system has been compromised. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-2-11(D)(4) | (4) The method of hydrostatic testing for all underground piping system materials shall be ASTM F 2164-02, unless the owner or operator has certification from a professional engineer that the standard used meets or exceeds ASTM F 2164-02. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(D)(4)(a) | (a) If the system fails to meet the requirements set forth in ASTM F 2164-02, then the owner or operator must report said failure to the department within forty-eight hours upon finding such failure; and | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(D)(4)(b) | (b) The system must be repaired, modified or replaced immediately. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(D)(5) | (5) A calibrated test gauge must be used for testing. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(D)(5)(a) | (a) Certification of the test gauge must be traceable to the standards of NIST. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(D)(6) | (6) The pressure application tap and pressure gauge taps for hydrostatic testing must be labeled as such. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(E) | (E) Pneumatic or pressurized air testing is prohibited. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(F) | If the underground piping system does not meet the requirements as set forth in this rule secondary containment is required. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(F) | Secondary containment shall be a pipe within a pipe that drains into a sump collection that can be inspected for leakage. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(F) | The secondary collection and sump shall be protected against the collection of rainwater, runoff, and groundwater | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-2-11(G) | (G) The transfer pipe must be one identified in the ASTM standards referenced in paragraphs (C)(1)(a) to (C)(1)(f) of this rule. | ORC 905.44(A)(1) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-01 | (O) "Filling density" means the per cent ratio of the weight of the gas in a container to the weight of water at sixty degrees Fahrenheit that the container will hold. One pound H2O = 27.737 cubic inches at sixty degrees Fahrenheit. For determining the water capacity of the tank in pounds, the weight of a gallon (two hundred thirty-one cubic inches) of water at sixty degrees Fahrenheit in air shall be 8.32828 pounds; | ORC 905.40 | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-02(A) | No person shall: (1) Construct a new stationary ammonia system before the director of agriculture approves the location and design of the system; | ORC 905.40(B) | Yes, state law | Yes, state law |
| OAC 901:5-3-02(A) | (2) Operate a stationary ammonia system before the director approves the system as to design, construction and operation; | ORC 905.40(B) | Yes, state law | Yes, state law |
| OAC 901:5-3-02(A) | (3) Continue to operate a stationary system after the director determines that continued operation would be a distinct hazard to persons or adjoining property; | ORC 905.40(B) | Yes, state law | Yes, state law |
| OAC 901:5-3-02(A) | (4) Install a used container in a stationary system until he has delivered to the director: (a) A copy of the manufacturer's data report for the container including the design pressure determined by the ASME code in effect at the time of manufacture and evidence of inspection by an Ohio commission inspector; (b) A report of inspection made by a representative of the director; and if he deems it necessary, (c) A report of an approved instrument evaluation of the container made by a qualified inspection firm under the supervision of a representative of the director. | ORC 905.40(B) | Yes, state law | Yes, state law |
| OAC 901:5-3-02(B) | (B) The director shall: (1) Furnish forms for applications for approval of each site plan and design for any system; (2) Notify each applicant within thirty days after receipt of his application whether or not the application is approved; (3) Assign a permanent registration number to each system. | ORC 905.40(B) | Yes, state law | Yes, state law |

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| OAC 901:5-3-03(A) | Containers used with systems covered in rules 901:5-3-12 to 901:5-13-14 of the Administrative Code shall be registered with the "National Board of Unfired Vessels" and | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-03(A) | shall be constructed and tested in accordance with the latest edition (and subsequent amendments thereto) of the "Unfired Pressure Vessel Code" of the ASME except that construction under "Table UW 12" at a basic joint efficiency of under eighty per cent is not authorized. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-03(B) | Containers exceeding thirty-six inches in diameter or two hundred fifty gallons capacity shall be constructed to comply with one or more of the following additional requirements: | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-03(B)(1) | (1) Shall be stress relieved after fabrication in accordance with the code, or | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-03(B)(2) | (2) Cold formed heads, when used, shall be stress relieved, or | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-03(B)(3) | (3) Hot formed heads shall be used | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-03(C) | Welding to the shell, head, or any other part of the container subject to internal pressure shall be done in compliance with the code under which the container was fabricated and permanently stamped with the welder's ASME and certification number and date, | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-03(C) | or, in lieu of the permanent stamping by the welder, a record shall be kept by the manufacturer of welders | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-03(C) | which shall be available to the inspector. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-03(D) | All containers shall be inspected by a person having a current certificate of competency from the "National Board of Boiler and Pressure Vessel Inspectors". | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-03(D) | A report from an Ohio commission inspector shall also be required. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-03(E) | The provisions of paragraph (A) shall not be construed as prohibiting the continued use or reinstallation of containers constructed and maintained in accordance with all prior editions of the "Unfired Pressure Vessel Code" of the ASME or any revisions thereof in effect at the time of fabrication. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-04(A) | Container nameplates must be legible, permanently attached to the container and accessible for inspection. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-04(A) | Container nameplates shall include markings as prescribed in paragraph (B) unless the container has been issued special permit DOT SP13554 by the United States department of transportation. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-04(B) | (B) Each container covered in rules 901:5-3-12 to 901:5-3-14 of the Administrative Code shall be marked as follows: (1) With a marking which indicates compliance with the rules of the code under which the container is constructed; (2) With a notation on the container nameplate when the container is designed for underground installation; (3) With the name and address of the supplier of the container or the trade name of the container and with the date of fabrication; (4) With the water capacity of the container in pounds at sixty degrees Fahrenheit or gallons, U.S. standard; (5) With the design pressure in pounds per square inch gage; (6) With the wall thickness of the shell and heads; (7) With marking indicating the maximum level to which the container may be filled with liquid anhydrous ammonia at temperatures between twenty degrees Fahrenheit and one hundred degrees Fahrenheit except on containers provided with fixed maximum level indicators, such as fixed length dip tubes, or containers that are filled by weight. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-04(B)(7) | . Markings shall be in increments of not more than ten degrees Fahrenheit | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-04(B)(10) | (10) Marking specified on container shall be on the container itself or on a nameplate permanently affixed thereto; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-04(C) | (C) All main operating valves on permanently installed containers having a capacity of over three thousand water gallons shall be identified to show whether the valve is in liquid or vapor service. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-04(C)(1) | The method of identification shall be legend or color code as specified | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-04(C)(1) | (1) Legend: The legend "LIQUID" (or "LIQUID VALVE"), or "VAPOR" (or "VAPOR VALVE"), as appropriate, shall be placed on or within twelve inches of the valve by means of a stencil, tag, or decal; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-04(C)(2) | (2) Color code: Liquid valves shall be painted Omaha orange or equivalent | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-04(C)(2) | and vapor valves shall be painted safety yellow or equivalent. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-04(C)(2) | The legend "OMAHA ORANGE LIQUID", or "SAFETY YELLOW VAPOR" shall be displayed in one or more conspicuous places at each permanent storage location. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-04(C)(2) | The legend shall have letters at least two inches high | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-04(C)(2) | and shall be placed against a contrasting background. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-05(A) | Consideration shall be given to the physiological effects of ammonia as well as to adjacent fire hazards in selecting the location for a storage container. | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-05(A) | Containers shall be located outside of any building or in a building or section thereof especially approved for this purpose; | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-05(B) | Containers shall be located at least fifty feet from a dug well or other sources of potable water supply; | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-05(C) | The location of permanent storage containers shall be outside densely populated areas; | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-05(D) | Container locations shall comply with the following table: | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-05(E) | Storage areas shall be kept free at all times of readily ignitable materials such as, but not limited to, waste, weeds and long dry grass. | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-06(A) | All appurtenances shall be designed for not less than the maximum working pressure of that portion of the system on which they are installed. | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-06(A) | All appurtenances shall be fabricated from materials proved suitable for anhydrous ammonia service; | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-06(B) | All connections to containers except safety relief devices, gaging devices, or those fitted with a no. 54 drill size orifice shall have shut-off valves located as close to the container as practicable; | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-06(C) | Excess flow valves where required by these rules shall close automatically at the rated flows of vapor or liquid as specified by the manufacturer. | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-06(C) | The connections and line including valves and fittings being protected by an excess flow valve shall have a greater capacity than the rated flow of the excess flow valve; | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-06(F) | Excess flow and back pressure check valves where required by these rules shall be located inside of the container or at a point outside as close as practicable to where the line enters the container. | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-06(F) | In the latter case, installation shall be made in such manner that any undue stress beyond the excess flow or back pressure check valve will not cause breakage between the container and the valve; | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-06(G) | Excess flow valves shall be designed with a by-pass not to exceed a no. 60 drill size opening to allow equalization of pressures; | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-06(H) | Shut-off valves provided with an excess flow valve shall be designed for proper installation in a container connection so that the excess flow valve will close should the shut-off valve break; | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-06(I) | All excess flow valves shall be plainly and permanently marked with the name or trade-mark of the manufacturer, the catalog number, and the rated capacity | ORC 905.40(A) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(A) | All piping, tubing and fittings shall be made of material suitable for anhydrous ammonia service; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(B) | All piping, tubing and fittings shall be designed for a pressure not less than the maximum pressure to which they may be subjected in service; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(C) | All piping shall be well supported | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(C) | and provision shall be made for expansion and contraction; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(D) | Piping used in systems shall be at least ASTM "A-53 Grade B" seamless electric resistance welded. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(D) | Such pipe shall be at least "Schedule 40" when joints are welded, or welded and flanged. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-07(D) | Such pipe shall be at least "Schedule 80" when joints are threaded. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(D) | Brass, copper, or galvanized steel pipe or tubing shall not be used; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(E) | All metal flexible connections for permanent installations shall have a minimum working pressure of two hundred fifty psig (safety factor of four). | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(E) | For temporary installations, hose meeting the requirements of rule 901:5-3-08 of the Administrative Code shall be used; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(F) | Cast iron fittings shall not be used but this shall not prohibit the use of fittings made specifically for ammonia service of ductile iron such as "Specification ASTM A47" or "ASTMA395"; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(G) | Provisions shall be made for expansion, contraction, jarring, vibration, and for settling; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(H) | Adequate provisions shall be made to protect all exposed piping from physical damage that might result from moving machinery, the presence of automobiles or trucks, chemical corrosion or any other undue strain that may be placed upon the piping; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(I) | Joint compounds shall be resistant to ammonia. Teflon ammonia resistant tape can be used; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-07(J) | After assembly, all piping and tubing shall be tested and proved to be free from leaks at a pressure not less than the normal operating pressure of the system. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-08(A) | Hose used in ammonia service and subject to container pressure shall conform to the joint "Rubber Manufacturers Association" and "The Fertilizer Institute" "Hose Specifications for Anhydrous Ammonia" "Standard No. M-5"; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-08(B) | Hose subject to container pressure shall be designed for a minimum working pressure of three hundred fifty psig and a minimum burst pressure of one thousand seven hundred fifty psig. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-08(B) | Hose assemblies, when made up, shall be capable of withstanding a test pressure of five hundred psig; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-08(C) | Hose and hose connections located on the low pressure side of flow control or pressure reducing valves on devices discharging to atmospheric pressure shall be designed for the maximum low side working pressure. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-08(C) | All connections shall be designed, constructed, and installed so that there will be no leakage when connected; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-08(D) | Where liquid transfer hose is not drained of liquid upon completion of transfer operations, such hose shall be equipped with an approved shut-off valve at the discharge end. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-08(E) | On all hose one-half inch outside diameter and larger, used for the transfer of anhydrous ammonia liquid or vapor, there shall be etched, cast, or impressed at no less than five-foot intervals the following information | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-08(F) | All hose shall be replaced five years after date of manufacture or after evidence of damage. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(A) | Every container used in systems covered by rules 901:5-3-12 to 901:5-3-14 of the Administrative Code shall be provided with one or more safety relief valves of the spring-loaded or equivalent type. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(A) | The discharge from safety relief valves shall be vented away from the container, upward and unobstructed to the atmosphere. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(A) | All safety relief valve discharge openings shall have suitable raincaps that will allow free discharge of the vapor and prevent the entrance of water. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(A) | Provision shall be made for draining condensate which may accumulate. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(A) | The rate of the discharge shall be in accordance with the provisions of Appendix A, ANSI K 61.1 -1972;" | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(B) | Container safety relief valves shall be set to start-to-discharge as follows, with relations to the design pressure of the container: [TABLE] | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-09(C) | Safety relief devices used in systems covered by rules 901:5-3-12 to 901:5-3-14 of the Administrative Code shall be constructed to discharge at not less than the rates required in paragraph (A) before the pressure is in excess of one hundred twenty per cent of the maximum permitted start-to-discharge pressure setting of the device | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(D) | Safety relief valves shall be so arranged that the possibility of tampering will be minimized. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(D) | If the pressure setting adjustment is external, the relief valves shall be provided with means for sealing the adjustment | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(E) | Shut-off valves shall not be installed between the safety relief valves and the containers or systems described in rules 901:5-3-12 to 901:5-3-14 of the Administrative Code except that a shut-off valve may be used where the arrangement of this valve is such as always to afford required capacity flow through the relief valves. NOTE: Another exception to this may be where two separate relief valves are installed with individual shut-off valves. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(E) | In this case, the two shut-off valve stems shall be mechanically interconnected in a manner which will allow full required flow of one safety relief valve at all times. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(F) | Safety relief valves shall have unrestricted access to the vapor space of the container | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(G) | (G) Each safety relief valve used with systems described in rules 901:5-3-12 to 901:5-3-14 of the Administrative Code shall be plainly and permanently marked | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(G)(4) | (4) The manufacturer's name or trademark and catalog number and date of manufacture shall be required on all newly installed relief valves. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(H) | The flow capacity of the safety relief valve shall not be restricted by any connection to it on either the upstream or downstream side | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-09(I) | The manufacturer or supplier of a safety relief valve manifold shall publish complete data showing the flow rating through the combined assembly of the manifold with safety relief valves installed. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(I) | The manifold flow rating shall be determined by testing the manifold with all but one valve discharging. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(I) | If one or more openings have restrictions not present in the remaining openings, the restricted opening or openings or those having the lowest flow shall be used to establish the flow rate marked on the manifold nameplate. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(I) | The marking shall be similar to that required in paragraph (G) for individual valves | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(J) | A hydrostatic relief valve shall be installed between each pair of shut-off valves in the liquid ammonia piping or hose where liquid may be trapped so as to relieve into the atmosphere at a safe location, | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(J) | or shut-off valves with internal relief shall be used | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-09(K) | Discharge from safety relief devices shall not terminate in or beneath any building. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-10(A) | Personnel required to handle ammonia shall be trained in safe operating practices and the proper action to take in the event of emergencies. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-10(A) | Personnel shall be instructed to use the equipment listed in paragraph (C) in the event of an emergency. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-10(B) | If a leak occurs in an ammonia system, the personnel trained for and designated to act in such emergencies shall: | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-10(C) | (C) All storage systems shall have on hand, as a minimum, the following equipment for emergency and rescue purposes | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-10(C)(7) | (C) All storage systems shall have on hand, as a minimum, the following equipment for emergency and rescue purposes: . . . (7) Where several persons are usually present, additional safety equipment shall be required. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-10(D) | Each piece of farm equipment transporting anhydrous ammonia shall carry a container of at least five gallons of water | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-10(D) | and shall be equipped with rubber gloves and either a full face gas mask, or a pair of tight-fitting goggles, or one full face shield. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-10(D) | The driver shall be instructed in their use and the proper action to take to provide for his safety. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-10(F) | If liquid ammonia contacts the skin or eyes, the affected area should be promptly and thoroughly flushed with water for at least fifteen minutes. Do not use neutralizing solutions or ointments on affected areas. Persons exercising control over liquid ammonia shall be responsible for being certain that a physician is consulted for persons who have accidental exposure to liquid ammonia. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(A)(1) | (A) Filling densities (1) The filling densities of containers shall not exceed the following: [TABLE] | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B) | (B) Transfer of liquids (1) Anhydrous ammonia shall always be at a temperature suitable for the material of construction and design of the receiving containers; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(2) | (2) At least one attendant shall supervise the transfer of liquids from the time the connections are first made until they are finally disconnected; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(3) | (3) Flammable gases or gases which will react with ammonia (such as air) shall not be used to unload tank cars or transport trucks; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(4) | (4) Containers shall be charged or used only upon authorization of the owner; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(5) | (5) Containers shall be gaged and charged only in the open atmosphere or in buildings approved for that purpose; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(6) | (6) Pumps used for transferring ammonia shall be recommended and labeled for ammonia service by the manufacturer. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(6)(a) | (a) Pumps shall be designed for at least two hundred fifty psig working pressure; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(6)(b) | (b) Positive displacement pumps shall have installed, off the discharge port, a constant differential relief valve or a bypass valve discharging into the suction post of the pump through a line of sufficient size to carry the full capacity of the pump at relief valve setting | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-11(B)(6)(b) | which setting and installation shall be according to pump manufacturer's recommendations; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(6)(c) | (c) On the discharge side of the pump, before the relief valve line, there shall be installed a pressure gage graduated from zero to four hundred psig; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(6)(d) | (d) Systems piping shall contain shut-off valves located as close as practicable to pump connections; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(7) | (7) Compressors used for transferring ammonia shall be recommended and labeled for ammonia service by the manufacturer; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(7)(a) | (a) Compressors shall be designed for at least two hundred fifty psig working pressure. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(7)(a) | Crank cases of compressors not designed to withstand system pressure shall be protected with a suitable safety relief valve; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(7)(b) | (b) Systems piping shall contain shut-off valves located as close as practicable to compressor connections; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(7)(c) | (c) A safety relief valve large enough to discharge the full capacity of the compressor shall be connected to the discharge before any shut-off valve; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(7)(d) | (d) Compressors shall have pressure gages at suction and discharge graduated from zero to four hundred psig; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(7)(e) | (e) Adequate means, such as a drainable liquid trap, shall be provided on the compressor suction to minimize the entry of liquid into the compressor; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(7)(f) | (f) Where necessary to prevent contamination, an oil separator shall be provided on the discharge side of the compressor. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(8) | Loading and unloading systems shall be protected by suitable devices to prevent emptying of the storage container or the container being loaded or unloaded in the event of severance of the hose. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(8) | Backflow check valves or properly sized excess flow valves shall be installed where necessary to provide such protection. In the event that such valves are not practical, remotely operated shut-off valves may be installed; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-11(B)(9) | (9) Meters used for the measurement of liquid anhydrous ammonia shall be recommended and labeled for ammonia service by the manufacturer; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(9)(a) | (a) Liquid meters shall be designed for a minimum working pressure of two hundred fifty psig; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(9)(b) | (b) The metering system shall incorporate devices that will prevent the inadvertent measurement of vapor. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(B)(10) | (10) No transfer shall be made directly from a motor transport which exceeds three thousand water gallons in capacity to application equipment; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(C) | (C) Tank car unloading points and operations (1) Provisions for unloading tank cars shall conform to the regulations of the U.S. department of transportation; The letters shall be white on a blue background; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(C)(2) | (2) Unloading operations shall be performed by reliable persons properly instructed and made responsible for careful compliance with all applicable procedures; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(C)(3) | (3) Caution signs shall be so placed on the track or car as to give necessary warning to persons approaching car from open end or ends of siding | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(C)(3) | and shall be left up until after car is unloaded and disconnected from discharge connections. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(C)(3) | Signs shall be of metal or other suitable material, at least twelve by fifteen inches in size and bear the words "STOP - Tank Car Connected" or "STOP -Men At Work", the word "STOP" being in letters at least four inches high and the other words in letters at least two inches high. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(C)(3) | The letters shall be white on a blue background; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(C)(4) | (4) The track of a tank car siding shall be substantially level; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(C)(5) | (5) Brakes shall be set and wheels chocked on all cars being unloaded; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(C)(6) | (6) Tank cars of anhydrous ammonia shall be unloaded only at approved locations meeting the requirements of rules 901:5-3-01 to 901:5-3-12 of the Administrative Code. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-11(D) | (D) Liquid level gaging device. (1) Each container except those filled by weight shall be equipped with an approved liquid level gaging device; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(D)(2) | (2) All gaging devices shall be arranged so that the maximum liquid level to which the container is filled is readily determined; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(D)(3) | (3) Gaging devices that require bleeding of the product to the atmosphere such as the rotary tube, fixed tube, and slip tube devices, shall be designed so that the maximum opening of the bleed valve is not larger than no. 54 drill size unless provided with an excess flow valve; (| ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(D)(4) | 4) Gaging devices shall have a design pressure equal to or greater than the design pressure of the container on which they are installed; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(D)(5) | (5) Fixed liquid level gages shall be so designed that the maximum volume of the container filled by liquid shall not exceed eighty-five per cent of its water capacity. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(D)(5) | The coupling into which the fixed liquid level gage is threaded must be placed at the eighty-five per cent level of the container. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(D)(5) | If located elsewhere, the dip tube of this gage must be installed in such a manner that it cannot be readily removed; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(D)(6) | (6) Gage glasses of the columnar type shall be restricted to stationary storage installations. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(D)(6) | They shall be equipped with shut-off valves having metallic handwheels, with excess-flow valves, and with extra heavy glass adequately protected with a metal housing applied by the gage manufacturer. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-11(D)(6) | They shall be shielded against the direct rays of the sun. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(A) | (A) Container valves and accessories, filling and discharge connections (1) Each filling connection shall be provided with combination back-pressure check valve and excess flow valve; one double or two single back-pressure check valves; or a positive shut-off valve in conjunction with either an internal back-pressure check valve or an internal excess flow valve. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-12(A)(2) | (2) All vapor and liquid connections, except safety-relief valves and those specifically exempt in rule 901:5-3-06 of the Administrative Code shall be equipped with approved excess flow valves; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(A)(2) | or in lieu thereof, may be fitted with approved quick-closing internal valves which, except during operating periods, shall remain closed. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(A)(3) | (3) Each storage container shall be provided with a pressure gage graduated from zero to four hundred psig. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(A)(3) | Gages shall be designated for use in ammonia service. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(A)(4) | (4) All containers shall be equipped with an approved vapor return valve. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(A)(5) | (5) All containers shall be equipped with a fixed maximum liquid level gage. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(B) | (B) Safety relief devices Every container shall be provided with one or more safety relief valves of spring-loaded or equivalent type | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(B) | and shall comply with the following: | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(B)(1) | (1) The discharge from safety relief valves shall be directed away from the container upward and unobstructed to the open air. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(B)(1) | Vent pipes shall not be restrictive or smaller in size than the safety relief valve outlet connection. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(B)(1) | All safety relief valve discharges shall have suitable rain caps that will allow free discharge of the vapor and prevent the entrance of water. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(B)(1) | Suitable provision shall be made for draining condensate which may accumulate; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(C)(1) | (C) Installation of storage containers (1) Containers shall be provided with substantial reinforced concrete footings and foundations or structural steel supports mounted on reinforced concrete foundations. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(C)(1) | In either case, the reinforced concrete foundations or footings shall extend below the established frost line | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(C)(1) | and shall be of sufficient width and thickness to support the total weight of the containers and contents adequately. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-12(C)(1) | The foundation shall maintain the lowest point of the tank at not less than eighteen inches above the ground. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(C)(1) | Floating type foundations shall also be acceptable providing the foundations are designed to adequately support the tank, contents and pumping equipment. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(C)(2) | (2) Horizontal aboveground containers shall be mounted on foundations in such a manner as to permit expansion and contraction. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(C)(2) | Every container shall be supported so as to prevent the concentration of excessive loads on the supporting portion of the shell. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(C)(2) | The bearing afforded by the saddles shall extend over at least one third of the circumference of the shell. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(C)(2) | Suitable means for preventing corrosion shall be provided on that portion of the container in contact with the foundations or saddles. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(C)(3) | (3) Distance between containers shall be at least five feet, end to end or side to side. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(C)(4) | (4) Only two supports shall be used per container. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(D) | (D) Marking of containers (1) Aboveground uninsulated containers shall have a reflective surface maintained in good condition. White is recommended for painted surfaces, but other light reflecting colors are acceptable. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(D) | (2) Each container or group of containers shall be marked on at least two sides with the words "Anhydrous Ammonia" in sharply contrasting colors with letters not less than four inches high. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(E) | (E) Marking of appurtenances (1) All container openings, except safety relief valves, liquid level gaging devices, and pressure gages shall be identified by legend or color code as specified in paragraphs (C)(1) and (2) of rule 901:5-3-04 of the Administrative Code. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(E) | (2) Instructions for loading and unloading procedures shall be required at all installations. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(F)(1) | (F) Protection of container appurtenances (1) Valves and other appurtenances shall be protected against physical damage. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-12(F)(1) | Main container shut-off valves shall be kept closed and locked when the installation is unattended. If the facility is protected against tampering by fencing or other suitable means, valve locks are not required. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(G) | (G) Identification (1) A sign shall be displayed in a conspicuous place stating the name, address, and phone number of the nearest representative, agent, or owner of the storage system, an emergency phone number and the phone number of the nearest fire department. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(G) | (2) A plant registration number assigned by the Ohio department of agriculture shall be prominently displayed with the information required in paragraph (G)(1). | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(H) | (H) Electrical equipment and wiring (1) Electrical equipment and wiring for use in ammonia installations shall be general purpose or weather resistant as appropriate. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-12(H) | (2) Where concentrations of ammonia in air in excess of sixteen per cent by volume are likely to be encountered, electrical equipment and wiring shall be a type specified by and be installed in accordance with "National Electrical Code", "NFPA 70 (ANSI-C1)", for "Class I, Group D" locations. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(A) | (A) Design and construction of containers - Containers shall be designed and constructed in accordance with rule 901:5-3-03 of the Administrative Code; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(B) | (B) Mounting containers (1) A suitable "stop" or "stops" shall be mounted on farm equipment or on the container in such a way | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(B)(1) | that the container shall not be dislodged from its mounting due to the farm equipment coming to a sudden stop. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(B)(1) | Back slippage shall also be prevented by proper methods; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(B)(2) | (2) A suitable "hold-down" device shall be provided which will anchor the container to the farm equipment at one or more places on each side of the container; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(B)(3) | (3) When containers are mounted on four-wheel farm equipment, care shall be taken to insure that the weight is distributed evenly over both axles; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-13(B)(4) | (4) When the cradle and the container are not welded together, suitable material shall be used between them to eliminate metal-to-metal friction. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(C)(1) | (C) Container appurtenances (1) All containers shall be equipped with a fixed maximum liquid level gage; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(C)(2) | (2) All containers with a capacity exceeding two hundred fifty gallons shall be equipped with a pressure gage having a dial graduated from zero to four hundred psig; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(C)(3) | (3) The filling connection shall be fitted with combination back-pressure check valve and excess flow valve; one double or two single back-pressure check valves; or a positive shut-off valve in conjunction with either an internal back-pressure check valve or an internal excess flow valve; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(C)(4) | (4) All containers with a capacity exceeding two hundred fifty gallons shall be equipped for spray loading or with an approved vapor return valve; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(C)(5) | (5) All vapor and liquid connections, except safety relief valves and those specifically exempt in rule 901:5-3-03 of the Administrative Code, shall be equipped with approved excess flow valves or may be fitted with quick-closing internal valves which, except during operating periods, shall remain closed; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(C)(6) | (6) Fittings shall be protected from physical damage by means of a rigid guard designed to withstand static loading in any direction equal to twice the weight of the container and lading using a safety factor of two based upon the ultimate strength of the material used. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(C)(6) | If the guard is fully enclosed, the safety relief valves shall be properly vented through the guard; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(C)(7) | (7) If a liquid withdrawal line is installed in the bottom of a container, the connections thereto, including hose, shall not be lower than the lowest horizontal edge of the farm equipment axle; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(C)(8) | (8) Provision shall be made to secure both ends of the hose while in transit | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-13(D) | (D) Marking of container - There shall appear on each side and on the rear end of the container in letters at least four inches high, the words "ANHYDROUS AMMONIA". | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(E) | (E) Marking of appurtenances (1) All container openings, except safety relief valves, liquid level gaging devices, and pressure gages shall be identified by legend or color code as specified in rule 901:5-3-04 of the Administrative Code; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(E) | (2) Instructions for loading and unloading procedures shall be required on all containers. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(F)(1) | (F) Farm equipment (1) Any farm equipment shall be securely attached to the vehicle drawing it by means of drawbars supplemented by suitable safety chains; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(F)(2) | (2) Any farm equipment shall be constructed so that it will follow substantially in the path of the towing vehicle and will prevent the towed farm wagon from slipping or swerving dangerously from side to side | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(F)(2) | and shall display a slow moving vehicle emblem; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(F)(3) | (3) Each piece of farm equipment transporting anyhydrous ammonia shall carry a container of at least five gallons of water | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(F)(3) | and shall be equipped with rubber gloves and either a full face mask, or a pair of tight-fitting goggles, or one full face shield. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-13(F)(3) | The driver shall be instructed in their use and the proper action to take to provide for his safety. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-14(A) | (A) Design and construction of containers - The minimum design and construction for containers shall be in accordance with rule 901:5-3-03 of the Administrative Code. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-14(B) | (B) Mounting of containers - All containers shall be securely mounted. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-14(C)(1) | (C) Container valves and appurtenances (1) Each container shall have a fixed maximum liquid level gage; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |

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| OAC 901:5-3-14(C)(2) | (2) The filling connection shall be fitted with combination back-pressure check valve and excess flow valve; one double or two single back-pressure check valves; or a position shut-off valve in conjunction with either an internal back-pressure valve or an internal excess-flow valve; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-14(C)(4) | When the applicator tank is trailed and the metering device is remotely mounted, such as on the tractor tool bar, an automatic break-a-way type, self-closing, coupling must be used; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-14(D) | (D) Safety equipment - Each piece of farm equipment transporting anhydrous ammonia shall carry a container of at least five gallons of water | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-14(D) | and shall be equipped with rubber gloves and either a full face mask, or a pair of tight-fitting goggles, or one full face shield. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-14(D) | The driver shall be instructed in their use and the proper action to take to provide for his safety. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-14(E) | (E) Marking of container - There shall appear on the rear and both sides of the container in letters at least four inches high the words "ANHYDROUS AMMONIA." | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-14(F) | (F) Marking of appurtenances (1) All container openings, except safety relief valves, liquid level gaging devices, and pressure gages shall be identified by legend or color code as specified in rule 901:5-3-04 of the Administrative Code; | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-3-14(F) | (2) Instructions for loading and unloading procedures shall be required on all containers. | ORC 905.40(B) | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-4-02(A) | Beginning September 30, 2017, no person shall apply fertilizer for the purposes of agricultural production unless either of the following applies: | ORC 905.321(A) | Yes, state law | Yes, state law |
| OAC 901:5-4-02(B) | An applicant shall be issued a fertilizer certificate if the applicant has satisfied the requirements set out in Chapter 905. of the Revised Code and the rules adopted thereunder, and the following have been received by the director: | ORC 905.322 & ORC 905.321 | Yes, state law | Yes, state law |
| OAC 901:5-4-02(C) | A completed formal application on a form prescribed by the director shall include the following: | ORC 905.322 & ORC 905.321 | Yes, state law | Yes, state law |

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| OAC 901:5-4-02(D) | (D) The initial fee and the renewal fee for a fertilizer certificate shall be thirty dollars per certification period. These fees are non-refundable. These fees are not applicable to the following individuals: | ORC 905.322 & ORC 905.321 | Yes, state law | Yes, state law |
| OAC 901:5-4-02(E) | (E) Except for as provided below, the certification period for certificate holders shall commence on the first day of April and shall expire the last day of March of the third year following issuance of the certificate. | ORC 905.322 & ORC 905.321 | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-4-02(E) | (1) The certification period for certificate holders who hold a valid and current commercial applicator license under section 921.06 of the Revised Code shall commence on the first day of October and shall coincide with the certification period associated with their commercial applicator license. | ORC 905.322 & ORC 905.322 | Yes, state law | Yes, state law |
| OAC 901:5-4-02(E) | (2) The certification period for certificate holders who hold a valid and current private applicator license under section 921.11 of the Revised Code shall commence on the first day of April and shall coincide with the certification period associated with their private applicator license. | ORC 905.322 & ORC 905.323 | Yes, state law | Yes, state law |
| OAC 901:5-4-03(A) | Each applicant for a fertilizer certificate shall successfully complete a department approved agricultural nutrient training course which, at a minimum, educates the applicant on the following: | ORC 905.322 & ORC 905.321 | Yes, state law | Yes, state law |
| OAC 901:5-4-03(B) | Each applicant for an initial fertilizer certificate shall complete one of the following educational requirements, if applicable, within twelve months prior to applying for certification: | ORC 905.322 & ORC 905.321 | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-4-03(C) | Each applicant whom possesses a valid and current fertilizer certificate and wishes to renew their certificate shall complete one of the following educational requirements: | ORC 905.322 & ORC 905.321 | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-4-04(A) | All fertilizer certificate holders shall maintain fertilizer application records. For each application of fertilizer applied for the primary purpose of agricultural production, the certificate holder or the applicator acting under their instructions and control shall document the following information within twenty-four hours of application: | ORC 905.322 & ORC 905.321 | Yes, state law | Yes, state law |

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| OAC 901:5-4-04(B) | All individuals acting under the instructions and control of a certificate holder shall transmit all fertilizer application records to the certificate holder within ten days of application. | ORC 905.322 & ORC 905.321 | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-4-04(C) | Fertilizer application records shall be maintained for a period of three years. If applicable, the employer of a certificate holder may elect to maintain the fertilizer application records. | ORC 905.322 & ORC 905.321 | Yes, state law | Yes, state law |
| OAC 901:5-4-04(C) | If elected, the employer shall maintain the fertilizer application records for a period of three years even if the employee-employer relationship has ended. | ORC 905.322 & ORC 905.322 | Yes, state law | Yes, state law |
| OAC 901:5-4-04(C) | The employer must make the records available to the certificate holder and the department of agriculture, upon request. | ORC 905.322 & ORC 905.323 | Yes, state law | Yes, state law |
| OAC 901:5-4-04(D) | All fertilizer certificate holders shall transmit all fertilizer application records to the farm operator within thirty days of application. | ORC 905.322 & ORC 905.321 | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-4-04(E) | Fertilizer certificate holders are not required to submit these records to the director, but the records shall be made available to the director or the director's designee for review upon request. | ORC 905.322 & ORC 905.321 | Yes, state law | Yes, state law |
| OAC 901:5-4-06 | As required in section 905.36 of the Revised Code all licensees and registrants shall file their annual tonnage report on or before the thirtieth day of November of each calendar year on a form prescribed by the director of agriculture. | ORC 905.321 & ORC 905.36(B) | Yes, state law | Yes, state law |
| OAC 901:5-4-07(F) | All money paid under paragraphs (D) and (E) of this rule shall be deposited into the agricultural pollution abatement fund. | ORC 905.327 | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-5-04(A) | When samples are collected, samples must be taken which represent an average of all parts in a given lot of bulk agricultural liming material | ORC 905.61 | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-5-04(A) | and shall avoid surface material, modified or contaminated material, or material from the bottom of the pile of such material. | ORC 905.62 | No, general rulemaking authority | No, general rulemaking authority |
| OAC 901:5-5-04(B) | The director shall not take samples from broken or damaged bags of agricultural liming material. | ORC 905.61 | No, general rulemaking authority | No, general rulemaking authority |