

Dairy Keeper News & Information Notice 2009

Notice 09.05 Volume 2

January 5, 2009

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News & Information Notice Subject: - Bulk Storage of Fertilizer

Bulk storage tanks are defined as:

- Having a capacity greater than 2,500 gallons OR
- Having a combined capacity of all tanks greater than 7,500 gallons OR
- Mobile containers that store fertilizer on site for more than 30 days

Deadline for Containment: August 13, 2008

New farm storage facilities (no tanks/storage before August 2003) must comply immediately.

Siting: All farm bulk storage facilities must comply with the setbacks laid out in: Water Supply Setback Requirements for

Bulk Storage Facilities Regulated through Regulations 640, 641, 642.

FARMS WITH BULK STORAGE TANKS MUST HAVE:

1. Secondary Containment

Dike must be designed to withstand a full hydrostatic head of any discharged liquid and weight load of material.

Dike Materials: reinforced concrete, precast concrete modules, steel, earthen berm

Liner Materials: synthetic liners (min 30 mils), clay (min 6"), concrete, and steel. Liner must be watertight.

- Secondary containment not protected from rainfall:

110% largest tank volume + displacement volume of other tanks below dike wall + volume of a 6" rainfall

- Secondary containment protected from rainfall (located under a roofed structure):

110% largest tank volume + displacement volume of other tanks below dike wall

Tanks

- Keep locked/secured when not in use; close valves on empty tanks

- Label as fertilizer with a minimum 4" lettering

Appurtenances (valves, gauges, pumps, hoses, plumbing, etc.)

- Must be within the containment area and above ground
- Support to prevent sagging and protect to prevent damage
- Keep locked/secure when not in use

Containment Area Management of Accumulated Liquid

- Liquids must be removed by a manually activated pump

• Liquids with fertilizer – apply at agronomic rates to sites where fertilizer can still be utilized as intended

• Liquids without fertilizer – may be discharged as surface runoff – but not directly into surface water,

waterways, storm drains or field tile

2. Operational Pad

Supervise loading and unloading at all times.

Three Options:

- Concrete Pad – holds at least 750 gallons, 10' by 20' minimum size dimensions
 - Portable Pad – holds at least 750 gallons, 10' by 20' minimum size dimensions
 - Closed Containment System – Dry couplers, hoses under manufacturer warranty, anti-overflow devices, and 150-gallon container under point of transfer
3. Discharge Response Plan – MDA Spill Hotline: 1-800-405-0101
Contains: emergency contact numbers, product list and site plan depicting all structures and nearby water sources
- Completing Emergency Planning on the Farm (MSU Bulletin E-2575) will meet this requirement
 - Local Groundwater Technician assistance is available at no cost (emergency tube program)

Resource: Michigan Department of Agriculture