Regulation 642: On-Farm Fertilizer Bulk Storage

SUMMARY Sheet

This regulation applies to farms with bulk liquid fertilizer storage tanks.

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.

<u>Dike Materials:</u> reinforced concrete, precast concrete modules, steel, earthen berm

<u>Liner Materials:</u> 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 150gallon container under point of transfer

3. Discharge Response Plan – MDARD 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)

Copies of Regulation 642 are available by contacting:

Michigan Department of Agriculture & Rural Development

Pesticide & Plant Pest Management Division Phone: (517) 284-5644

Web: www.michigan.gov/mdard-bulkstorage

This document is provided as a guideline.
Full compliance must be in accordance with Regulation 642

