

Bulk Pesticide/Fertilizer Storage — New Storage Application

New Facility Site
Change in Ownership

The data on this form will be used to process your application. You must provide your Minnesota Tax ID number. If you do not have one, you must provide your social security number (MS Sec 270C.72). We are required by law to collect this information and we cannot grant your license without it. No one will have access to your social security number except those permitted access by law, your written consent, court order, or those department employees whose job duties require access. Pursuant to MS Sec 297A.66 if your company maintains within the state an office or place of distribution or sales person or other employee that solicits, sells or delivers goods or services in the state you must have a Minnesota Tax ID number. If you are unsure if you need a Minnesota Tax ID, contact the Minnesota Department of Revenue at www.taxes.state.mn.us.

Does your company maintain within the state an office or place of distribution or sales person or other employee that solicits, sells or delivers goods or services in the state? YES or NO. If yes, enter the MN Tax ID number in the space provided below.

COMPANY INFORMATION <i>(Please print)</i>				
Company Legal Name:		MN Tax ID or if none, Social Security #:		
DBA <i>(If different)</i> :		Company Mailing Address <i>(If different)</i> :		
Physical (911) Address of Proposed Permit Site (No PO Box)		City:	State:	Zip:
City:	State:	Zip:	Company Telephone #:	
County:		Contact Person:		
CHANGE IN OWNERSHIP APPLICATIONS ONLY — <i>List former legal company name(s) and address(es) involved in Change of Ownership.</i>				
Former Company Legal Name(s):				
Township Name:		Township Designation:		
Range Designation:		Section:	1/4 of 1/4 Section:	
PERMIT FEES				
New or existing site locations that do not currently hold a bulk storage permit.				
New bulk pesticide facility (liquid and/or dry)/ change in ownership permit application fee.		600326(3100)	\$ 100.00	
New bulk fertilizer facility (liquid and/or dry)/ change in ownership permit application fee.		600290(3100)		
New bulk combined pesticide/fertilizer facility/(liquid and/or dry)/change in ownership permit application fee.		600326(3100)		
Please provide brief description of proposed construction noted above:				
Penalty Fee <i>(if applicable)</i>				
Constructing a new bulk pesticide facility without a permit.		600326(3510)	\$ 250.00	
Constructing a new bulk fertilizer facility without a permit.		600290(3510)		
Constructing a new bulk combination pesticide/fertilizer facility without a permit.		600326(3510)		
MDA Processing Surcharge		553068(3360)	\$ 5.00	
TOTAL DUE			\$ 105.00	
OR			\$ 355.00	
Return this form with your check made payable to:				
Minnesota Department of Agriculture Attn: Cashier 625 Robert Street North Saint Paul, MN 55155-2538 Licenses are not transferable and fees are not refundable.				
I hereby certify that the information contained in and submitted with this form is true and correct.			FOR OFFICE USE ONLY	
Signature:		Date:		
Name <i>(Please Print)</i>		Phone #:		
Title:		Fax #:		
Email Address:				

Submit the Following Information With This New Permit Application

A permit cannot be issued without this information.

It is a violation of MN Statutes 18B and 18C for a person to construct new safeguards or substantially alter an existing permitted safeguard at a Bulk Ag Chemical Storage Facility. If discovered that a firm is in violation of these statutes they may receive ORDERS from the Minnesota Department of Agriculture (MDA) to Cease & Desist all construction activity until a permit has been granted by the MDA along with possible enforcement action.

1. Provide facility EPA Establishment Number if permit application involves construction of a new Bulk Pesticide Facility.

EPA Establishment Number:

Check if permit application is for Bulk Fertilizer Only

2. Name of contractor(s) or company involved in constructing or installing this safeguard.

Contractor Name:

Phone:

Address:

City:

State:

Zip:

3. Provide a copy of a local permit letter of authorization required by any local unit of government (city, county, etc) for new construction being proposed.

Check if building permit is not currently available, but will be submitted prior to construction.

Check if no local building permit or authorization is required for this proposed construction.

4. Quarter Mile Map.

Attach a copy of a detailed map or a combination of maps, aerial photos, and diagrams which accurately label and show the location of the new proposed facility and include the following landmarks within 1/4 mile of the proposed construction (all directions):

- Distance and direction of residences, businesses, schools, nursing homes, hospitals, within 1/4 of the proposed new facility. Also note cropland, forest land and other land uses.
- Distance and direction to surface water (creeks, streams, rivers, lakes, ponds, wetlands, etc.), drainage ditches and down gradient storm sewers within 1/4 mile of the proposed new facility.
- Is there a municipal well within 1/4 mile of the facility?* **YES** **NO**

*If yes, indicate well site on quarter mile map and note the distance from the proposed construction on map and here:

5. Facility Map/Diagram

Map/diagram of your facility property that clearly outlines your property and shows the location of the new proposed facility/safeguard. *(This map is separate from the quarter mile and should include all the following information)*

* Maps should indicate North, South, East and West directions and should also be close to scale.

- Indicate clearly on the facility map the correct property boundaries.
- Label and show all buildings and vehicle parking areas on the facility property.
- Indicate and label all current pesticide/fertilizer storage areas. Also label all areas where mixing and loading have occurred.
- Indicate where all storm sewer inlets and tile inlets and outlets are located on the property.
- Show location of all wells located on the property and indicate distance from the proposed new safeguard. Are there any wells within 150 feet of the proposed safeguard (dike, dry storage bins, load pad areas)? **YES** **NO**

6. Provide construction drawings/plans (to scale) for each of the proposed safeguards.

Plans must include material and design specifications for each area. Plans must also include dimensions and cross-section details that specifically show how the safeguard will be constructed and made water tight. Drawings must include details that show how all floor, wall/floor and wall joints will be constructed. (Indicate all specific waterstops and sealants that will be used). Do not submit an application without detailed construction plans that show how the safeguard will be built.

- Do not submit an application without detailed construction plans that show how the safeguard will be built.
- Do not begin construction on the safeguard until a permit has been granted by the MDA.

7. Provide construction drawings/plans (to scale) for each of the proposed safeguards.

(See page #3) – Completely fill out all required information for tank(s)/bin(s) being added. Tank information is located on the top of the page while bin information is located on the bottom. You may use more than one page if necessary.

8. Provide calculations for all proposed secondary containment safeguards being proposed.

(See pages #4 and #5) – Calculations will determine/compare required and provided capacity of proposed secondary containment systems for bulk liquid storage. These pages are not required to be filled out for dry bulk storage of pesticide or fertilizer.

9. If permit application includes adding or changing tanks provide an overhead plumbing diagram which specifies locations, composition, diameter, and types of plumbing. Diagram should include: All tanks, valves, piping/hoses, pumps, meters, and scales.

Are all wetted parts from the tank outlet to and including the first valve (including bung, nipples, and all plugs) stainless steel?
(This is a requirement for all pesticide tanks and is strongly recommended for all fertilizer tanks.)

YES **NO**

10. Provide soils information at the surface to 3 foot level for proposed containment area site.

- A. For most proposed construction sites a copy of the soil series that represent the building site would be sufficient. This information can be obtained from your County Soil Survey. Provide a copy of the soil profile description that represents the proposed building location. This profile should include a soil description at depths to 60 inches. In some cases there may be more than one soil type that may need to be submitted.
- B. Approximate depth to high water table if less than 12 feet: feet
 - Soil Survey information can be obtained from the local Soil and Water Conservation District
 - NOTE: For larger construction projects, such as dry bulk fertilizer bins and field erected bulk ag chemical tanks, MDA may require a complete geotechnical site investigation prior to permitting.
 - Also, be aware that when constructing on sites that were previously used for ag chemical storing, mixing/loading, or used as parking areas it is strongly recommended (and may be required) to conduct preconstruction soil sampling of the area prior to construction. If your site may fit this description it is best to call the Incident Response Unit @ (651) 201-6268 to discuss your specific situation.

11. A release response plan is required under Minnesota Rules Part 1505.3100. This plan does not have to be submitted to the Minnesota Department of Agriculture with the permit application, but applicant must have one and it must be maintained and updated. (See MDA's website for suggested format for an Incident Response Plan.)

Is your firm's release response plan in place and up-to-date? **YES** **NO**

The minimum required information in a release response plan is as follows:

- A. The identity and telephone numbers of the persons who are to be contacted in the event of an agricultural chemical release, including owners (responsible persons), managers, employees, and government agencies.
- B. A complete copy of each bulk pesticide label.
- C. A complete copy of the Material Safety Data Sheet (MSDS) for each bulk pesticide stored at the facility.
- D. The procedures and equipment to be used in abating and recovering a pesticide release.
- E. The general location where any bulk pesticide container is stored at the facility.

12. Markings/Signage Requirements

Facilities that store bulk liquid/dry fertilizer are required under Minnesota Rules Part 1510.0377 and Part 1510.0405:

- A. To have containers properly labeled with appropriate grade or guaranteed analysis of the contents of the storage container.
- B. An identification sign displayed in a clearly legible and conspicuous manner stating the name, address, and telephone number of the nearest agent, representative, owner, or person who operates the facility.
- C. An incident notification sign must be posted in a conspicuous place within the facility.

Does this application include storage of bulk liquid or dry fertilizer? **YES** **NO**

If YES, will your company have all the required signage requirements in place prior to storing bulk fertilizer? **YES** **NO**

13. Markings/Signage Requirements

Will there be pesticide impregnation done in the new facility? **YES** **NO**

If Yes, will firm have adequate secondary containment for minibulk tanks and inductor? **YES** **NO**

Provide explanation of how minibulk tank(s) and inductor will be safeguarded:

Check: If firm does not plan to do any pesticide impregnation at this location.

Check: If firm plans to impregnate fertilizer but will only use small package pesticide containers (*less than 56 gallons in size*).

Explain all other scenarios:

Dike No. ¹	Type of Dike ²	Dike Material ³	Roofed/Unroofed	Tank No.	Tank Capacity	Unit of Measurement ⁴	Tank Dimensions ⁵	Tank is Made of ⁶	Vert./Horiz.	Cone/Flat Bottom	Ht. Floor to Cone	External Sight Gauge ⁷	Product Stored ⁸	Tank Age (Years)	Previous Product Stored
¹ Dike number must correspond to facility map.								⁵ List in feet (<i>i.e. 6'4" = 6.33 feet</i>). List diameter, height, and length. Height of tank = height from floor to top of tank, not from bottom of cone to top of tank (<i>not from bottom of cone to top of tank</i>).							
² Pesticide Dike, Fertilizer Dike, Combination Pesticide/Fertilizer Dike, Combination Dike/Load Area.								⁶ Mild Steel, Stainless Steel, Poly.							
³ Concrete, Metal, Poly, Synthetic, Masonry.								⁷ YES or NO.							
⁴ Gallons								⁸ Product Name (<i>i.e. Harness, Roundup, Dual, 28-0-0, Water, Rinsate, Surfactant, Fuel</i>).							

Dike No.	Type of Tank/Bin ¹	Roofed/Unroofed	Tank/Bin No.	Unit of Measurement ² (Quantity in Tons)	Tank/Bin Dimensions ³	Tank/Bin is Made of ⁵	Vert./Horiz. ⁴	Product Stored
¹ Dry Bulk Pesticide Tank, Dry Bulk Fertilizer Bin, Dry Bulk Fertilizer.					⁴ Vertical = tank storage, Horizontal = bin storage.			
² Tons					⁵ Mild Steel, Concrete, Concrete/Wood.			
³ List in feet (<i>i.e. 6'4" = 6.33 feet</i>). List Diameter/width, height, and length.								

Note: For substantial alteration permit applications, include new tank/bin information and all other remaining tanks/bins within the containment area.

Secondary Containment Calculations

Return all of this information, if applicable, with the permit application.

* Use tank information from Section 7 (Attachment 1).

** Convert all dimensions to feet (i.e. 6'4" = 6.33').

*** All capacities are in gallons.

Calculations for Containment Required

1. Dike Number _____ (Use a separate calculation sheet for each dike.)
2. Multiply the capacity (gallons) of the largest tank (pesticide, fertilizer, water, rinsate, etc.) in the secondary containment area by 1.25 (unroofed) or 1.1 (roofed).
 Largest tank capacity (Tank # _____): _____ gallons x _____ [1.25 (unroofed) or 1.1 (roofed)] = _____
3. Vertical tank displacement (gallons). **NOTE:** Cone bottom tanks whose outlet is above the height of a dike wall do not need to be calculated.
 Tank 2 diam _____ ft .x Tank 2 diam _____ ft .x .785 x dike wall ht _____ ft .x 7.48 = _____
 Total gallons displacement for Tank 2 = _____
 Tank 3 diam _____ ft .x Tank 3 diam _____ ft .x .785 x dike wall ht _____ ft .x 7.48 = _____
 Total gallons displacement for Tank 3 = _____
 Tank 4 diam _____ ft .x Tank 4 diam _____ ft .x .785 x dike wall ht _____ ft .x 7.48 = _____
 Total gallons displacement for Tank 4 = _____
 Tank 5 diam _____ ft .x Tank 5 diam _____ ft .x .785 x dike wall ht _____ ft .x 7.48 = _____
 Total gallons displacement for Tank 5 = _____
 Tank 6 diam _____ ft .x Tank 6 diam _____ ft .x .785 x dike wall ht _____ ft .x 7.48 = _____
 Total gallons displacement for Tank 6 = _____
 Tank 7 diam _____ ft .x Tank 7 diam _____ ft .x .785 x dike wall ht _____ ft .x 7.48 = _____
 Total gallons displacement for Tank 7 = _____
 Tank 8 diam _____ ft .x Tank 8 diam _____ ft .x .785 x dike wall ht _____ ft .x 7.48 = _____
 Total gallons displacement for Tank 8 = _____
 Add total gallons of vertical tank displacement (Tanks 2-8) = (Vert. Tank Displ.) _____
4. Horizontal tank (round) displacement (gallons).
 Tank 2 Dike Wall Ht. (_____ ft.) / Tank Diam. (_____ ft.) = _____ = _____ conversion factor
 (from the chart below) Tank 2 capacity (gallons) _____ x _____ conversion factor = _____
 Tank 2 Displacement (gallons) _____
 Tank 3 Dike Wall Ht. (_____ ft.) / Tank Diam. (_____ ft.) = _____ = _____ conversion factor
 (from the chart below) Tank 3 capacity (gallons) _____ x _____ conversion factor = _____
 Tank 3 Displacement (gallons) _____
 Add total gallons of horizontal (round) tank displacement (Tanks 2-3) = (Horiz. Tank Displ.) _____

Conversion Factors

Dike Wall Ht. (ft.) + Tank Diameter (ft.)	Conversion Factor	Dike Wall Ht. (ft.) + Tank Diameter (ft.)	Conversion Factor	Dike Wall Ht. (ft.) + Tank Diameter (ft.)	Conversion Factor	Dike Wall Ht. (ft.) + Tank Diameter (ft.)	Conversion Factor
.01	.0017	.26	.2066	.51	.5127	.76	.8155
.02	.0048	.27	.2178	.52	.5255	.77	.8262
.03	.0087	.28	.2292	.53	.5382	.78	.8369
.04	.0134	.29	.2407	.54	.5509	.79	.8473
.05	.0187	.30	.2523	.55	.5636	.80	.8576
.06	.0245	.31	.2640	.56	.5762	.81	.8677
.07	.0308	.32	.2759	.57	.5888	.82	.8776
.08	.0375	.33	.2878	.58	.6014	.83	.8873
.09	.0446	.34	.2998	.59	.6265	.84	.8967
.10	.0520	.35	.3119	.60	.6389	.85	.9059
.11	.0598	.36	.3241	.61	.6513	.86	.9149
.12	.0680	.37	.3364	.62	.6636	.87	.9236
.13	.0754	.38	.3487	.63	.6759	.88	.9320
.14	.0851	.39	.3611	.64	.6881	.89	.9402
.15	.0941	.40	.3735	.65	.7002	.90	.9480
.16	.1033	.41	.3860	.66	.7122	.91	.9554
.17	.1127	.42	.3986	.67	.7241	.92	.9625
.18	.1224	.43	.4112	.68	.7360	.93	.9692
.19	.1323	.44	.4238	.69	.7477	.94	.9755
.20	.1424	.45	.4364	.70	.7593	.95	.9813
.21	.1527	.46	.4491	.71	.7708	.96	.9866
.22	.1631	.47	.4618	.72	.7822	.97	.9913
.23	.1733	.48	.4745	.73	.7934	.98	.9952
.24	.1845	.49	.4873	.74	.8450	.99	.9983
.25	.1855	.50	.5000	.75		1.00	1.0000

5. Enter the totals from sections 2,3, and 4 below. Add totals together and enter that total in the total Containment Required space provided:
2. Largest tank capacity x 1.25 or 1.1 _____
3. Total vertical tank displacement _____
4. Total horizontal (*round*) tank displacement _____
5. Other displacement (*overburden, etc.*) _____
6. Add 1,000 gallons for combination dike/load pad _____
- TOTAL CONTAINMENT REQUIRED** _____

6. Calculate the amount of containment (*gallons*) for the secondary containment:
- Interior length _____ ft. x Interior width _____ ft. x wall height _____ ft. x 7.48
- TOTAL CONTAINMENT PROVIDED** _____

7. If the Total Containment Provided figure in section 6 above is greater than the Total Containment Required figure from section 5 above, your secondary containment area is adequate. No further work is needed.
- If the Total Containment Provided figure in section 6 above is less than the Total Containment Required figure from section 5, you must:
- A. Increase wall height or increase interior dimensions and
- B. Recalculate section 6 above, which must equal or exceed the Total Containment Required from section 5.

Secondary Containment Calculations

Return all this information with the permit application if a new load pad is being proposed and is separate from containment dike above.

8. Load Area # _____ (*Use a separate sheet for each load area.*)
9. A. Length _____ ft. x width _____ ft. x average dept _____ ft. x 7.48
- (Loading areas must be curbed 3" in height at the perimeter.)**
- B. Length _____ ft. x width _____ ft. x average dept _____ ft. x 7.48
- C. Add the end figure from A and B above. Enter total loading area containment gallons here:
- D. Bulk pesticide liquid load pad containment requirements:
1. Containers of 500 U.S. gallons or more = Minimum capacity of 1000 gallons.
 2. Containers of 250 - 500 U.S. gallons = Minimum capacity of 500 gallons.
 3. Containers of less than 250 U.S. gallons = Minimum capacity of 250 gallons.
- Enter the appropriate minimum capacity figure here: _____
- E. Compare the appropriate figure listed in D with the figure in C. If C is less than D:
1. Increase average depth of loading area **or**
 2. Increase dimensions of loading area **and**
 3. **Recalculate A or B, so that the total equals or exceeds D**