CR 84-234

STATE OF WISCONSIN)) SS. DEPARTMENT OF AGRICULTURE,) TRADE & CONSUMER PROTECTION)

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETINGS:

I, William E. Simmons, Assistant Administrator, Agricultural Resource Management Division, State of Wisconsin, Department of Agriculture, Trade and Consumer Protection, and custodian of the official records of said Division, do hereby certify that the annexed order adopting rules relating to pesticide bulk storage practices, Chapter Ag 163, Wis. Adm. Code, was duly approved and adopted by the Department on August 20, 1985.

I further certify that said copy has been compared by me with the original on file in the Department and that the same is a true copy thereof, and of the whole of such original.

> IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the official seal of the Department at the Department offices in the city of Madison, this 20th day of August, 1985.

William E. Simmons

William E. Simmons Assistant Administrator Agricultural Resource Management Division



AUG 2 0 1985 Revisor of Statutes Bureau

1	ORDER					
2	OF THE					
3	STATE OF WISCONSIN					
4	DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION					
5	ADOPTING, AMENDING OR REPEALING RULES					
6	To create chapter Ag 163, relating to pesticide bulk storage					
7	practices.					

Analysis Prepared by the Department of Agriculture, Trade and Consumer Protection

Section 94.645, Stats., created by 1983 Wisconsin Act 410, directs the department of agriculture, trade and consumer protection to adopt standards for the storage of bulk pesticides, for the purpose of protecting waters of the state from harm due to pesticide contamination. Chapter Ag 163, Wis. Adm. Code, sets forth the pesticide bulk storage standards adopted by the department.

In 1970, acting under authority of s. 94.69, Stats., the department promulgated rules applying to storage of all pesticides. These rules have been amended several times since 1970, and are now found in s. Ag 29.12, Wis. Adm. Code. Chapter Ag 163, Wis. Adm. Code, is in addition to the existing pesticide storage rules, and applies specifically to the storage of pesticides in bulk quantity by persons engaged in the manufacture or distribution of pesticides.

Under the rule, storage containers and appurtenances used for storage of bulk liquid pesticides must be constructed, installed and maintained so as to prevent discharge of the pesticide. Storage containers and appurtenances must be designed to handle foreseeable operating stresses, and be constructed of materials which are resistant to corrosion, puncture or cracking. Certain types of materials are prohibited for use in construction of storage containers or appurtenances. Storage containers must be anchored, and must be equipped with a capacity gauge and a vent. Filling of storage containers must not exceed 95% of capacity, to allow for thermal expansion of the stored product. Storage containers must be located within a permanent fence or indoors, and must be secured against access by unauthorized persons or wildlife. Appurtenances must be fenced or secured to provide protection against vandalism or unauthorized access. Valves on containers must be locked or otherwise secured except during times of authorized access. Valves on rail cars, nurse tanks or other mobile storage containers must also be secured or locked if the filled containers are parked overnight at the storage facility. Certain requirements applicable to fixed storage containers are also applicable to rail cars, nurse tanks

and other mobile storage containers which are used for fixed storage for more than 15 consecutive days. Underground storage of liquid bulk pesticide is prohibited, except for pesticide rinsate or runoff from transfer or loading areas which is temporarily retained in a water-tight catch basin.

Storage containers and appurtenances must be routinely inspected and maintained to prevent risks of discharge, and valves must be inspected for leakage at least weekly. The level of pesticide in containers must be measured and recorded at least weekly. Storage containers must be equipped with a liquid level gauging device by which the level of liquid in the storage container can be readily and safely determined. External sight gauges are prohibited.

Storage containers which have been taken out of service for more than six months because of a weakness or leak, or which have been out of service for more than two years are considered abandoned. Underground abandoned containers must be thoroughly cleaned, disconnected from the storage system, and either filled with an inert solid or removed from the ground. Above-ground abandoned containers must be thoroughly cleaned and disconnected from the storage system.

Areas used for the loading and unloading of liquid pesticide to and from storage containers must be curbed and paved with asphalt, concrete, or other approved materials. The curbed and paved surface must form or drain into a liquid-tight catch basin, from which discharges incident to loading or unloading are to be recovered. Storage containers and appurtenances, including pipes, must be protected against reasonably foreseeable risks of damage by trucks and other moving vehicles engaged in the loading or unloading of bulk pesticides.

Storage containers for liquid bulk pesticide must be enclosed in a secondary containment facility which is adequate, in the event of a discharge, to prevent the movement of liquid pesticide to waters of the state including groundwater. The secondary containment must consist of a lined base and walls constructed according to specified engineering standards to assure relative impermeability, or a prefabricated system which is chemically compatible with the stored products and is constructed and installed to withstand the anticipated loading. Precipitation must not be allowed to accumulate in the secondary containment facility to the point where the accumulation may impair the effectiveness of the facility. Pesticide discharges into the facility must be promptly recovered, to the maximum extent feasible.

Dry pesticide stored in bulk quantity must be covered by a roof or tarpaulin, except during transfer operations, to keep precipitation off of the pesticide. Storage must be on pallets or on a raised and drained concrete platform to prevent accumulation of water in or under the pesticide. Dry bulk pesticide facilities must be secured against entry by unauthorized persons or wildlife.

Records of discharge of either liquid or dry bulk pesticides must be maintained by the facility. A current discharge response plan for every storage facility must be prepared and kept readily available at the storage facility, and at the nearest local office from which the facility is managed, if any. A copy of the discharge response plan must also be given to local police and fire departments. The plan must include an identification of persons or agencies to be contacted in the event of a discharge; and identification of the pesticide stored in each container; and, for each type of pesticide, the procedure to be used in controlling, recovering, and using or disposing of a discharge. Pumps. recovery containers, absorbent materials, personal protective equipment, and persons capable of using them, must be readily available in an emergency. Employees must be trained in discharge response procedures.

For liquid bulk pesticides, inspection, maintenance, and inventory records, and records of all pesticide discharges at a storage facility, shall be kept on file at the facility, or at the nearest local office from which the facility is managed. Records of discharges of dry bulk pesticides shall be kept at the facility, or at the nearest local office from which the facility is managed. Records shall be kept for 3 years, except that discharge records shall be kept for 5 years.

Labeling of bulk storage containers is required. in accordance with existing state and federal law.

The department may grant an exemption from a rule requirement if compliance is not technically feasible, but only if the department finds that alternative measures provide substantially similar protection for waters of the state.

Except for requirements pertaining to loading areas and secondary containment facilities, the rule will take effect 90 days after publication. Requirements pertaining to loading areas and secondary containment facilities will take effect on January 1, 1988. The rules do not distinguish between new and existing facilities.

1	Pursuant to authority vested in the state of Wisconsin			
2	department of agriculture, trade and consumer protection by			
3	s. 94.645, Stats., as created by 1983 Wisconsin Act 410, the state			
4	of Wisconsin department of agriculture, trade and consumer protec-			
5	tion hereby creates rules interpreting s. 94.645, Stats., as			
6	follows:			
7	SECTION 1: Chapter Ag 163 is created to read:			
8	Chapter Ag 163			
9	PESTICIDE BULK STORAGE			

NOTE: See Chapter Ag 162, Wis. Adm. Code, for rules on 1 fertilizer bulk storage. See s. Ag 29.12, Wis. Adm. Code, 2 for general rules on pesticide storage, including bulk pesticide storage. The U.S. Environmental Protection Agency has interpreted the Federal Insecticide, Fungicide, 3 and Rodenticide Act (7 U.S.C. 136 et. seq.) to include certain requirements of persons who, as pesticide sellers, 4 repackage pesticides by delivering them from bulk storage 5 into customers' bulk containers. These requirements may include, and are not necessarily limited to: registration 6 of the facility as a pesticide producing establishment; filing of annual pesticide production reports; maintenance 7 of books and records; provision of labeling to purchasers of bulk pesticides; delivery of pesticides from 8 a dealer's bulk storage only to bulk containers of customers; and maintaining a formal agreement with the 9 product registrant authorizing repackaging of the registrant's pesticide product for sale in bulk quantity. 10

Ag 163.01 <u>DEFINITIONS.</u> As used in this chapter: (1) "Appurtenances" means all valves, pumps, fittings, pipes, hoses, metering devices, mixing containers, and dispensing devices which are connected to a storage container, or which are used to transfer liquid bulk pesticide into or out of a storage container.

17 (2) "Bulk pesticide" means liquid pesticide in a container
18 larger than 55 gallons (208 liters) or solid pesticide in
19 undivided quantities greater than 100 pounds (45 kilograms).
20 It includes mini-bulk pesticide, except as otherwise specified.

(3) "Discharge" means a spill, leak, accidental or intentional release, or other emission of bulk pesticide from a storage container, container or appurtenance, and includes a discharge into secondary containment. It does not include a fully contained transfer of bulk pesticide which is made pursuant to sale, storage or distribution.

27 (4) "Distribute" means to import, consign, sell, offer for

sale, solicit orders for sale or otherwise supply pesticide for
 sale or use in this state.

3 (5) "Dry pesticide" means pesticide which is in solid form
4 prior to any application or mixing for application, and includes
5 formulations such as dusts, wettable powders, dry flowable
6 powders, and granules.

7 (6) "Groundwater" means any of the waters of the state, as
8 defined in s. 144.01(19), Stats., occurring in a saturated sub9 surface geological formation of rock or soil.

10 (7) "Inorganic soil" means a soil composed of less than 30
11 per cent organic matter, measured as less than 15 per cent organic
12 carbon by weight.

13 (8) "Liquid pesticide" means pesticide in liquid form, and
14 includes solutions, emulsions, suspensions and slurries.

15 (9) "Manufacture" means to process, manufacture, formulate,
16 prepare, compound, propagate, package, or label any pesticide.

17 (10)"Mini-bulk pesticide" means an amount of liquid pesti-18 cide greater than 55 gallons (208 liters) but not exceeding 400 gallons (1514 liters), or an amount of solid pesticide greater 19 than 100 pounds (45 kilograms) but not exceeding 500 pounds (225 20 kilograms), which is held in a single container designed for ready 21 handling and transport, has been filled by the original pesticide 22 product manufacturer, and to which no substance has been added by 23 24 any person.

(11) "Person" has the meaning specified under s. 144.01(9m),
Stats.

27 (12) "Pesticide" has the meaning specified under

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s. 94.67(25), Stats. For purposes of this rule, the term includes
 substances or mixtures of substances which are labeled as
 pesticides for use in further manufacture or formulation of
 pesticides.

5 (13) "Storage" means storage of bulk pesticide by a person 6 who manufactures or distributes bulk pesticide.

7 (14) "Storage container" means a container used for the fixed 8 storage of bulk pesticide; a rail car, nurse tank, or other mobile 9 container which is used for the fixed storage of bulk pesticide 10 for more than 15 consecutive days; or a container of mini-bulk 11 pesticide. It does not include a container which is used solely 12 for emergency storage of leaking pesticide containers which are 55 13 gallons or smaller.

14 (15) "Storage facility" means a location at which bulk pesti-15 cide is held in storage.

16 (16) "Waters of the state" has the meaning specified under 17 s. 144.01(19), Stats.

18 Ag 163.02 STORAGE CONTAINERS AND APPURTENANCES; LIQUID 19 PESTICIDE. (1) GENERAL REQUIREMENTS. Storage containers and 20 appurtenances shall be constructed, installed and maintained so as 21 to prevent the discharge of liquid bulk pesticide. Storage con-22 tainers and appurtenances shall be constructed of materials which 23 are resistant to corrosion, puncture or cracking. Materials used 24 in the construction or repair of storage containers and appurtenances may not be of a type which reacts chemically or electro-25 26 lytically with stored bulk pesticide in a way which may weaken the 27 storage container or appurtenance, créate a risk of discharge, or

adulterate the pesticide. Metals used for valves, fittings and 1 repairs on metal containers shall be compatible with the metals 2 3 used in the construction of the storage container, so that the 4 combination of metals does not cause or increase corrosion which may weaken the storage container or its appurtenances, or create a 5 6 risk of discharge. Storage containers and appurtenances shall be 7 designed to handle all operating stresses, taking into account 8 static head, pressure buildup from pumps and compressors, and any 9 other mechanical stresses to which the storage containers and 10 appurtenances may be subject in the foreseeable course of 11 operations.

(2) APPURTENANCES. (a) Every storage container connection, 12 except a safety relief connection, shall be equipped with a shut-13 14 off valve located on the storage container or at a distance from 15 the storage container dictated by standard engineering practice. 16 Except for a storage container of mini-bulk pesticide, all wetted 17 parts inside shutoff valves, and all connections from the storage 18 container to the shutoff valve, shall be made of stainless steel 19 or other department-approved material. Valves shall be secured to 20 protect against vandalism or accidental valve openings which may 21 result in a discharge.

(b) Pipes and fittings shall be adequately supported to
prevent sagging and possible breakage because of gravity and other
forces which may be encountered in the ordinary course of
operations.

26 (3) VENT. Each fixed storage container used for liquid bulk
27 pesticide shall be equipped with a conservation vent which opens

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and closes within the designed pressure limits of the container,
 so as to relieve excess pressure, prevent evaporative losses, and
 keep precipitation out of the container.

4 LIQUID LEVEL GAUGING DEVICE. Every storage container (4) 5 shall be equipped with a liquid level gauging device by which the 6 level of liquid in the storage container can be readily and safely determined. A liquid level gauging device is not required if the 7 8 level of liquid in a storage container can be readily and reliably measured by other means. Liquid level gauging devices shall be 9 secured, in a safe manner, to protect against breakage or vandal-10 11 ism which may result in a discharge. External sight gauges are 12 prohibited.

13 (5) PROHIBITED MATERIALS. (a) Storage containers and
14 appurtenances may not be made of polyvinyl chloride.

15 (b) A storage container may not be made of ferrous metals, 16 unless:

17 1. The container is made of stainless steel; or

18 2. The container has a protective lining which inhibits cor-19 rosion and which does not react chemically with the stored 20 pesticide.

(6) ANCHORING OF STORAGE CONTAINERS. Storage containers
shall be anchored, as necessary, to prevent flotation or instability which might occur as a result of liquid accumulations within
a secondary containment facility constructed under s. Ag 163.04.
(7) SECURITY. Outdoor storage containers shall be located
within a permanently fenced area. All storage containers shall
be secured against access by unauthorized persons and to provide

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reasonable protection against access by wildlife. Appurtenances 1 2 shall be fenced or otherwise secured to provide reasonable protection against vandalism or unauthorized access which may result in 3 a discharge. Valves on storage containers shall be locked or 4 otherwise secured except when persons responsible for facility 5 6 security are present at the facility. Valves on rail cars, nurse tanks, and other mobile pesticide containers parked overnight at a 7 storage facility shall be locked or secured except when persons 8 9 responsible for facility security are present at the facility.

10 (8) FILLING. Storage containers may not be filled to more11 than 95 per cent of capacity unless:

12 (a) The storage container construction or location provides13 constant temperature control; or

14 (b) The storage container is a mini-bulk pesticide15 container.

16 INSPECTION AND MAINTENANCE. The operator of a storage (9) facility shall routinely inspect and maintain storage facilities, 17 18 storage containers and appurtenances to minimize the risk of a 19 discharge. The operator shall inspect valves and other appurte-20 nances for leakage at least weekly, and inspect vents for proper 21 operation at least monthly. The operator shall measure and record the liquid pesticide level in each storage container at least 22 weekly, except that a container with a capacity of over 55 gal-23 lons (208 liters) but not exceeding 400 gallons (1514 liters) 24 25 which is stored on a concrete base meeting the requirements of s. Ag 163.04(5)(b) or in a prefabricated facility meeting the 26 requirements of s. Ag 163.04(6) may instead be visually inspected 27

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1 for leakage weekly and the result recorded at the time of the 2 inspection. A written record of all inspections and maintenance 3 shall be made on the day of the inspection or maintenance and kept 4 at the storage site, or at the nearest local office from which the 5 storage site is administered.

6 Ag 163.03 LOADING AREAS; LIQUID PESTICIDE. (1) CURBED AND PAVED SURFACE: CATCH BASIN. (a) Areas used for the loading of 7 8 liquid bulk pesticide into storage containers, or for unloading 9 liquid bulk pesticide from storage containers into mobile containers shall be curbed and paved with asphalt, concrete or other 10 11 department approved material. The curbed and paved surface shall 12 form or drain into a liquid-tight catch basin. If the curbed and paved surface drains to a sump, the catch basin may include the 13 14 sump and an above-ground container, provided a pump is installed 15 which automatically transfers the contents of the sump into an above-ground container. Except as provided in par. (b), curbed 16 17 surfaces and catch basins shall be of adequate size and design to 18 contain a combined total of at least 1,500 gallons (5,680 liters) of discharged liquid. 19

NOTE: The department will maintain a list of approved paving materials for given pesticides, and provide the current list to interested persons upon request. Additional materials may be approved and added to the list upon submission and review of chemical compatibility and permiability information provided to the depart ment by the product manufacturer.

(b) If no storage container used at the storage facility has a capacity of more than 1,000 gallons (3,780 liters), and if no mobile container used to transfer liquid bulk fertilizer to or from storage containers has a capacity of more than 1,000 gallons, 1 the curbed surface and catch basin shall be of adequate size and 2 design to contain 1.25 times the capacity of the largest storage 3 container or mobile container used, whichever is larger.

4 (2) PROTECTION AGAINST DAMAGE BY MOVING VEHICLES. Storage 5 containers and appurtenances, including pipes, shall be protected 6 against reasonably foreseeable risks of damage by trucks and other 7 moving vehicles engaged in the loading or unloading of bulk 8 pesticide.

9 (3) RECOVERY OF DISCHARGES; LOADING AREAS. Discharges 10 incident to loading or unloading shall be promptly recovered from 11 the paved surface and catch basin, such that the capacity required 12 under sub.(1) is available at all times.

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Ag 163.04 SECONDARY CONTAINMENT; LIQUID PESTICIDE.

(1) GENERAL REQUIREMENTS. Except as provided in sub. (9), storage containers shall be enclosed in a secondary containment facility which is adequate, in the event of a discharge, to prevent the movement of liquid pesticides to waters of the state including groundwater. A secondary containment facility shall consist of:

20 (a) A wall and liner as provided under subs. (4) and (5); or A prefabricated facility as provided under sub. (6). 21 (b) 22 (2)CAPACITY. The capacity of a secondary containment 23 facility shall be at least equal to the sum of all the following: 24 The greatest volume of liquid which could be discharged (a) from the largest storage container within the secondary contain-25 26 ment facility; and

27 (b) Twenty-five percent of the capacity of the largest

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storage container located within the secondary containment
 facility for an outdoor storage container, or 10 per cent of the
 capacity of the largest storage container located within the
 secondary containment facility for an indoor storage container;
 and ~

6 (c) The total volume of discharged liquid which would be 7 displaced by the submerged portions of all other storage con-8 tainers, fixtures and materials located within the secondary con-9 tainment facility, if the facility were filled to capacity with 10 discharged liquid.

STORAGE WITH OTHER COMMODITIES. No other commodity, 11 (3)except liquid pesticide, pesticide diluent, empty pesticide con-12 tainers, or pesticide discharges recovered under sub. (8) and 13 14 s. Ag 163.03(3), may be stored within a liquid 15 pesticide secondary containment facility. A liquid pesticide secondary containment facility may be located within, or may share 16 a wall or portion of a wall with, a liquid fertilizer secondary 17 18 containment facility constructed under s. Ag 162.04.

19 (4) WALLS. The walls of a secondary containment facility 20 shall be constructed of earth, steel, concrete or solid masonry, 21 and be designed to withstand a full hydrostatic head of any dis-22 charged liquid. Cracks and seams shall be sealed to prevent leakage. Walls constructed of earth or other permeable materials 23 shall be lined as provided under sub. (5). Earthen walls shall 24 have a horizontal-to-vertical slope of at least three to one, 25 unless a steeper slope is consistent with good engineering prac-26 tice, and shall be protected from erosion. Walls may not exceed 27

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1 6 feet (1.8 meters) in height above interior grade.

(5) LINING. (a) <u>General requirement.</u> The base of a secondary containment facility, and any earthen walls of the facility, shall be lined with asphalt, concrete, an approved synthetic liner, or a soil liner designed to limit the permeability of the base and walls. Liners shall meet the requirements of this subsection.

8 (b) <u>Asphalt or concrete liners.</u> Asphalt or concrete liners 9 shall be designed according to good engineering practices to with-10 stand any foreseeable loading conditions, including a full hydro-11 static head of discharged liquid. Cracks and seams shall be 12 sealed to prevent leakage.

13 Synthetic liners. Synthetic liners shall be approved by (c) 14 the department. Synthetic liners shall have a minimum thickness of 30 mils (0.8 millimeters), and be chemically compatible with 15 16 the materials being stored within the facility. A synthetic liner 17 may not be approved by the department until the manufacturer of 18 the liner provides the department with a written confirmation of compatibility, and a written estimate of the life of the liner. 19 The synthetic liner shall be protected by a 6 inch (15 centimeter) 20 21 soil layer below the liner, and a 12 inch (30-centimeter) soil layer above the liner. Both soil layers shall be free of large 22 rocks, angular stones, sticks or other materials which may punc-23 ture the liner. Synthetic liners shall be installed under the 24 25 supervision of a qualified representative of the manufacturer, and all field constructed seams shall be tested, and repaired if 26 necessary, in accordance with the manufacturer's recommendations. 27

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NOTE: The department will maintain a list of approved synthetic liners for given pesticides, and will provide the current list to any person upon request. Additional liners may be approved and added to the list upon submission and review of chemical compatability information provided to the department by the manufacturer.

5 (d) Soil liners. 1. A liner may be constructed of natural 6 soil, or of natural soil treated with bentonite clay, provided 7 that the liner meets the requirements of this paragraph. The 8 liner shall be designed and constructed according to good engineering practices, to achieve a coefficient of permeability not to 9 exceed 1 x 10^{-6} cm/sec, with a thickness of not less than 6 inches 10 11 (15 centimeters). The liner shall be covered by an inorganic soil 12 layer not less than 6 inches (15 centimeters) thick, and shall be 13 maintained, as necessary, to prevent cracking. Liners may not be 14 constructed of frost-susceptible soils, which include silts and 15 silty sand.

2. A natural soil may not be used in a soil liner if less than 50% by weight of the natural soil passes a No. 200 sieve, or if more than 5% by weight of the natural soil is retained on a No. 4 sieve. Natural soil liners shall contain less than 2% organic material and shall have a plasticity index of at least 15.

3. Bentonite treated liners shall consist of a uniform mixture of natural soil and bentonite. The natural soil used in the mixture shall have a plasticity index of at least 12. At least 30% by weight of the natural soil shall pass a No. 200 sieve, and less than 5% by weight of the natural soil shall be retained on a No. 4 sieve. Ninety percent of the bentonite by weight shall pass a No. 80 sieve, and the soil-bentonite mixture shall contain at
 least 5% bentonite by weight.

3 (6) PREFABRICATED FACILITIES. A prefabricated facility 4 shall be composed of a rigid prefabricated basin having both a base and walls constructed of steel or synthetic materials which 5 6 are resistant to corrosion, puncture or cracking. Materials used in the facility shall be chemically compatible with the products 7 8 being stored within the secondary containment facility. A written 9 confirmation of compatability from the basin manufacturer shall 10 be kept on file at the storage facility or at the nearest local 11 office from which the storage facility is administered. The 12 prefabricated facility shall be designed and installed to with-13 stand all foreseeable loading conditions, including the tank load 14 and a full hydrostatic head of any discharged liquid. Multiple 15 basins connected to provide the capacity required under sub. (2) 16 shall be connected in a manner which assures an unrestricted 17 transfer of discharged liquid between basins.

18 INSPECTION AND MAINTENANCE. (a) (7)General. Every secondary containment facility shall be inspected at intervals of 19 20 not more than 12 months, and be maintained as necessary to assure 21 compliance with this section. A written record of all inspections and maintenance shall be made on the day of the inspection or 22 23 maintenance, and kept at the storage facility, or at the nearest 24 local office from which the storage facility is administered.

25 (b) <u>Precipitation accumulations</u>. Precipitation may not be 26 permitted to accumulate in a secondary containment facility to the 27 point where the accumulation may tend to:

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Impair the adequacy of the facility for discharge con tainment purposes;

3 2. Increase the corrosion of storage containers or appur4 tenances; or

3. Impair the stability of storage containers.

6 (8) RECOVERY OF DISCHARGES. Discharges at a storage facil-7 ity shall be promptly recovered, to the maximum extent feasible. 8 Pumps and recovery containers for this purpose shall be readily 9 available, as provided in s. Ag 163.08(2).

10 NOTE: It is recommended that a recovered discharge not be sold. Unless it is applied in accordance with the product label directions, a recovered discharge may be a waste regulated under Ch. 144, Stats.

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(9) EXEMPTIONS. The secondary containment requirements under this section do not apply to rail cars which are periodically moved from the storage facility or to empty containers which have a capacity of over 55 gallons (208 liters) but not exceeding 400 gallons (1514 liters).

Ag 163.05 <u>UNDERGROUND LIQUID STORAGE PROHIBITED; EXEMPTION.</u> No person may store liquid bulk pesticide in an underground storage container. This prohibition does not apply to a watertight catch basin used for the temporary collection of runoff or rinsate from transfer and loading areas, pursuant to

23 s. Ag 163.03.

Ag 163.06 <u>ABANDONED CONTAINERS.</u> (1) GENERAL. Storage containers and other containers used at a storage facility to hold bulk pesticide or pesticide rinsate are considered abandoned containers under this section if they have been out of service for

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more than six months because of a weakness or leak, or have been out of service for any reason for more than two years. A secondary containment facility is not considered abandoned merely because there have been no discharges into the secondary containment facility.

6 (2) UNDERGROUND CONTAINERS OR CATCH BASINS. Abandoned 7 underground containers, including abandoned underground catch 8 basins under s. Ag 163.03, shall be:

9 (a) Thoroughly cleaned and removed from the ground; or 10 (b) Thoroughly cleaned and filled with an inert solid. All 11 connections and vents shall be disconnected and sealed. A record 12 of the catch basin size, location, and method of closing shall be 13 maintained at the storage facility.

14 (3) ABOVE-GROUND CONTAINERS. Above-ground containers which 15 have been abandoned shall be thoroughly cleaned. All hatches on 16 the containers shall be left open, and all valves or connections 17 shall be severed and sealed.

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Ag 163.07 RECORDKEEPING; LIQUID PESTICIDE STORAGE.

(1) 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:

(a) A record of all discharges at the storage facility, including the date and time of discharge, the type of liquid bulk pesticide discharged, the volume of the discharge, the cause of the discharge, any action taken to control or recover the discharge, and the method of use or disposal of any recovered discharge. The discharge record shall be completed on the day the 1 discharge is discovered, and shall be promptly updated to show
2 measures taken to control, recover, use or dispose of the
3 discharge.

4 (b) A regular record of the liquid pesticide levels in each 5 storage container. The level in each storage container shall be 6 measured and recorded at least weekly, as provided in 7 s. Ag 163.02(9).

8 (c) A monthly inventory reconciliation, showing the amount 9 of liquid bulk pesticide from each storage container which is lost 10 or unaccounted for at the end of each monthly period.

(d) Inspection and maintenance records pertaining to storage
containers, appurtenances, and secondary containment facilities,
as provided under ss. Ag 163.02(9) and Ag 163.04(7).

14 (e) A record of manufacturers' compatibility statements as 15 provided under s. Ag 163.04(5) and (6).

16 (f) A record of abandoned underground containers, if any, 17 as provided under s. Ag 163.06(2)(b).

18 (2) Records under this section shall be maintained for at
19 least 3 years. Discharge records under sub. (1)(a) shall be main20 tained for at least 5 years. Records under subs. (1)(e) and (f)
21 shall be kept as permanent records. Records shall be available
22 for inspection and copying by the department.

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Ag 163.08 STORAGE OF DRY PESTICIDE IN BULK QUANTITY.

(1) COVERING. Except during loading or unloading, stored
dry bulk pesticide shall be covered by a roof or tarpaulin which
will keep precipitation off the pesticide.

27 (2) REQUIREMENTS FOR OUTDOOR STORAGE FACILITIES. Dry bulk

pesticide stored outdoors shall be kept in storage containers.
 Storage containers shall be placed on pallets or on a raised con crete platform which is drained to prevent the accumulation of
 water in or under the pesticide.

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5 (3) SECURITY. Storage facilities shall be secured against 6 entry by unauthorized persons or wildlife.

7 (4) DISCHARGE RECORDS. A record shall be kept of all dis-8 charges of dry bulk pesticide, including the date and time of dis-9 charge, the type of dry bulk pesticide discharged, the volume of 10 the discharge, the cause of the discharge, any action taken to 11 control or recover the discharge, and the method of use or disposal of any recovered discharge. The discharge record shall be 12 13 completed on the day of the discovery of the discharge, and shall 14 be promptly updated to show measures taken to control, recover, 15 use or dispose of the discharge. Records shall be maintained for 16 at least five years, and shall be made available for inspection 17 and copying by the department on request.

18 Ag 163.09 PREPARATIONS FOR CONTROL AND RECOVERY OF PESTICIDE 19 DISCHARGES. (1) DISCHARGE RESPONSE PLAN. The operator of a storage facility shall prepare a written discharge response plan 20 21 for the storage facility. The operator shall keep the plan cur-22 rent at all times. A copy of the plan shall be kept readily available at the storage facility and at the nearest local office 23 from which the storage facility is administered, and shall be 24 available for inspection and copying by the department. The oper-25 26 ator of the storage facility shall inform the local fire and police departments of the existence of the plan, and shall provide 27

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1 a current copy of the plan to the local fire and police depart-2 ments. The plan shall include:

3 (a) The identity and telephone number of the persons or
4 agencies who are to be contacted in the event of a discharge,
5 including persons responsible for the stored pesticide.

6 (b) For each bulk pesticide stored at the facility, a com-7 plete copy of the storage container labeling required under 8 s. Ag 163.10, and the labeling required to accompany sale of the 9 pesticide under s. 94.70, Stats.

10 (c) An identification, by location, of every storage 11 container located at the storage facility, and the type of bulk 12 pesticide stored in each storage container. The plan need not 13 include the specific location of each storage container of mini-14 bulk pesticide, provided that the plan includes the general loca-15 tion within the facility at which storage containers of mini-bulk 16 pesticide are held.

17 (d) For each type of bulk pesticide stored at the facility,
18 the procedures to be used in controlling and recovering, or other19 wise responding to a discharge.

20 (e) Procedures to be followed in using or disposing of a21 recovered discharge.

(2) EQUIPMENT AND SUPPLIES. (a) Manufacturers and distributors who store bulk pesticides shall have access to pumps and
recovery containers which can be used to control and recover discharges, and to personal protective equipment and clothing for use
by persons involved in discharge control and recovery. Pumps,
recovery containers, personal protective equipment and clothing,

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and persons capable of deploying and operating them, shall be 1 readily available in an emergency. Pumps, recovery containers, 2 personal protective equipment and clothing required under this 3 4 subsection may include those provided by a local fire department or öther persons, if the use and availability of the pumps, 5 recovery containers and personal protective equipment is arranged 6 7 in advance as part of a discharge response plan. Pumps, recovery 8 containers, personal protective equipment, and other materials 9 used in control and recovery of discharges shall be decontaminated 10 promptly after the discharge has been recovered, and may not be 11 used for other purposes until they have been decontaminated. 12 (b) Absorbent materials suitable for the control and cleanup 13 of small liquid discharges shall be kept readily available at 14 every storage facility.

15 (3) TRAINING. Persons employed at storage facilities shall
16 be trained in discharge response procedures, pursuant to the
17 discharge response plan.

NOTE: The Department of Natural Resources must be promptly informed of the discharge of any hazardous
material, pursuant to s. 144.76, Stats. Under most circumstances, this requirement applies to a pesticide discharge.

Ag 163.10 <u>LABELING OF STORAGE CONTAINERS.</u> (1) Every stor-22 age container shall bear a label stating, with regard to the cur-23 rent contents of the container:

24 (a) The product brand name.

(b) The registration number assigned to the product by the
United States Environmental Protection Agency, if the product is a
registered pesticide.

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(c) The pesticide producing establishment number, if any,
 which was placed on the container by the original pesticide product
 manufacturer.

4 (d) An ingredient statement meeting the specifications of
5 s. 94.67(17), Stats.

6 (e) The name and address of the person who has registered 7 the product with the U.S. Environmental Protection Agency, if the 8 product is a registered pesticide.

The net contents of the storage container. For liquid 9 (f) 10 bulk pesticide, the net contents shall be the net contents when 11 the storage container is filled to the capacity specified in s. Ag 163.02(8). For a mini-bulk pesticide storage container, the 12 statement of net contents shall be that which was placed on the 13 14 storage container by the original pesticide product manufacturer. 15 (g) Storage and disposal directions, and any other precautionary labeling, as specified under s. 94.676, Stats., if the 16 17 product is a registered pesticide.

18 (h) The appropriate toxicity signal word and directions for19 treatment of human exposure.

20 (2) The label required under this section shall be placed 21 on the storage container so as to be visible from outside of the 22 secondary containment facility. The label shall be kept in read-23 able condition. The type size used on the label shall be that 24 which is specified under Title 40, Part 162, of the Code of 25 Federal Regulations.

26 (3) A copy of the label specified in sub. (1), and any other 27 labeling supplied with the pesticide by the pesticide product

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registrant, shall be kept with each copy of the discharge response 1 plan required under s. Ag 163.09(1). 2

NOTE: With every sale from a bulk pesticide storage 3 container, the customer shall be supplied with complete labeling, as required under s. 94.70, Stats. Such labeling would include, among other required information, the seller's pesticide producing establishment number as 5 assigned by the United States Environmental Protection Agency, and the net contents of each container sold.

7 EXEMPTIONS. The department may exempt any person Ag 163.11 8 from a requirement under this chapter if compliance is not technically feasible, but only if the department finds that alternative 9 measures provide substantially similar protection for the waters 10 11 of the state. A person requesting an exemption shall provide the 12 department with adequate information to show that alternative measures provide substantially similar protection for the waters 13 14 of the state.

Ag 163.12 EFFECTIVE DATES. MAN CENERALL, This chapter 15 shall take effect 90 days after publication in the Wisconsin 16 administrative register, except that ss. Ag 163.03 and Ag 163.04 17 shall take effect on January 1, 1988. 18

The rules contained in this order shall take 19 SECTION 2: effect 90 days after publication in the Wisconsin administrative 20 21 register, as provided in s. 227.026(1) (intro), Stats., except that ss. Ag 163.03 and Ag 163.04 shall take effect on January 1, 22 23 1988.

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1	Dated this J	O day of	Rugust, 1985.
2	Dated this		July , 1909.
3			STATE OF WISCONSIN DEPARTMENT OF AGRICULTURE,
4			TRADE AND CONSUMER PROTECTION
5			1. 1. 00 1
6			By William E. Simmons
7			Assistant Administrator Agricultural Resource
8			Management Division
9	JPE/m/T4/1/PID4 8/19/85-19		
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