Application Instructions for Construction Approval - Pesticide Bulk Storage Facility

The Application for Bulk Pesticide Storage Facility form must be submitted by all applicants. Schedules that are applicable to the operations at each pesticide facility must also be submitted. **The application is divided into different schedules, you need complete only the application schedule that applies to your specific type of facility or situation.** Schedule specific instructions are included. The schedules that may be required are:

- Schedule A: New Pesticide Facility
- Schedule B: Load Pad and Operational Area
- Schedule C: Dry Pesticide Storage, Handling & Blending
- Schedule D: Facility Modification

The application, data and information should be typed or legibly printed in ink. All pages should be numbered and organized in the following sequence:

1. Application for Bulk Pesticide Storage Facility
2. Schedule A: New Pesticide Facility
3. Location Area Map
4. Plot Plan of Facility
5. Flow Diagram - Water System Protection
6. Operational and Management Practices Plan
7. Construction Plans and Specifications
8. Schedule B: Load Pad and Operational Area
10. Construction Plans and Specifications
11. Schedule C: Dry Pesticide Storage, Handling & Blending
13. Construction Plans and Specifications
14. Schedule D: Facility Modification
15. Construction Plans and Storage
16. Other Information

Construction plans and drawings item 7, 10, 13 and 15 may be more conveniently grouped as the last section. These drawings are often applicable to more than one schedule. In some cases one plan view may cover both operational and secondary containment systems. In this situation reference the drawing number on the schedules. **It is the responsibility of the applicant to clearly identify all confidential business information submitted with the application package.**

Application Delay for Specific Schedules: If you are not submitting plans for a specific schedule with your application, this should be clearly stated in your cover letter and noted in the comment section of the application form. Estimate the date that the plans will be submitted.

Each application must provide sufficient information to allow the Department to conduct an independent engineering review to determine if the containment systems, structures, and operational practices planned will result in compliance with the applicable statutes KAR 4-13-25 through 4-13-25l.

**Detailed instructions are included for each section of the application. These instructions and those on each schedule should allow you to prepare this application.** Contact the Department of Agriculture, telephone number is 785-296-3786, if you have you additional questions. Submit the complete construction application package to:

Kansas Department of Agriculture  
Pesticide & Fertilizer Program  
109 SW Ninth Street, 3rd Floor  
Topeka, Kansas 66612
Application for Bulk Pesticide Storage Facility

Facility Name_________________________________________________________________________

Mailing Address
Street Address City State Zip County

Facility Address
Street Address City State Zip County
Quarter Section Township Range

Application Contact: __________________________________Telephone_________________________

Please check the appropriate boxes to fully describe the nature of the project. This application for construction approval is to verify that proposed plans conform to the requirements of the State of Kansas KAR 4-13-25 through 4-13-25l.

_______ New Facility Construction _______ Expansion to Existing Facility

_______ Liquid only _______ Dry only _______ Liquid & Dry

Description of Project: Documents submitted as a part of this application cover the pesticide items checked below: Complete Application for Construction Approval and all applicable Schedules along with the associated requirements for each as an attachment to the construction application.

_____ Schedule A New Pesticide Facility
_____ Schedule B Load / Unload Pad Area and Recovery System Plan Schedule
_____ Schedule C Dry Pesticide Storage, Handling, and Blending Plan
_____ Schedule D Modification or Expansion

Comments: (If additional space is needed, attach a separate sheet.)
Description - Facility Storage Tanks & Load Pads (Check all applicable sections and complete relative questions in section.)

1. (    ) Liquid Pesticide Storage Tanks(s)
   Receiving: Rail_______ Truck_______ Barge_______
   Number of Tanks:_______ Capacity of each (gal):______________________________________
   __________________________________________
   Does facility have secondary containment for these liquid pesticide storage tanks?
   Yes ___________ No __________
   Describe type of secondary containment structure(s):
   __________________________________________
   __________________________________________
   Secondary containment volume:____________Gallons

2. (    ) Mini-bulks
   Receiving: Rail_______ Truck_______ Barge_______
   Number of Mini-bulks:_______ Capacity of each (gal):___________________________________
   __________________________________________
   Does facility have secondary containment for these mini-bulks?
   Yes ___________ No __________
   Describe type of secondary containment structure(s):
   __________________________________________
   __________________________________________

3. (    ) Load/Unload Pad:
   Does facility have a load / unload pad that provides for containment and recovery of spillage from blending and loading of pesticides and equipment washing?
   Yes__________ No___________
   Load Pad containment volume:____________Gallons

4. (   ) Dry Pesticide Storage and Handling:
   Receiving: Rail_______ Truck_______ Barge_______
4. ( ) Dry Pesticide Storage and Handling (cont):
   Blender: Open Top Blender_______ Closed Top Blender_______
   What type of material is used for the dry load pad?

5. ( ) Pesticide Blending Operations:
   Liquid Blending _______ Dry Blending _______ Both _______
   Is the process of impregnating dry pesticide with fertilizer materials conducted in facility blending operation?
   Yes ______ No ______ Considering Process _______
   Does facility have on-board impregnation on application equipment? Yes ______ No_______

6. ( ) Water Supply - Proximity to Wells & Waters of the State:
   ______ Facility Well on Site: Depth ______ feet;
   ______ Connection to community / public water system
   ______ Other water source:_______________________________________________________
   Does facility have a back-flow protection? Yes ______ No ______
   Describe:______________________________________________________________________
   Distance to community wells:
   ____________________________________________________________________________
   Number of off-site private wells within 1320 feet of your property?__________________________
   Use of these wells:_______________________________________________________________
   Soil type:______________________________________________________________________
   Nearest Surface Water: Name of stream, river, lake:____________________________________

7. ( ) Does your facility have a bio-security plan? Yes ______ No ______
   If yes, please include a copy of your bio-security plan with your application.

8. ( ) Did your facility submit any confidential business information? Yes ______ No_______
   Confidential business information will be maintained in a segregated file. You must specifically identify individual documents as confidential business information when you submit them to assure segregation.
1. Certification of Construction Plans and Specifications:

a) Certificate by Applicant

I hereby certify that I am familiar with the information contained in this application, the attached schedules, and that to the best of my knowledge and belief such information is true, complete, and accurate, and the construction plans and specifications were prepared by me or a permanent employee under my direction.

Name______________________________________ Title_______________________________

Signature ________________________________________________Date__________________

b) Certificate by Design Engineer

I hereby certify that I am familiar with the contents of this application and that the design of the facility containment systems conforms to the requirements of KAR 4-13-25 through 4-13-25l, and the construction plans and specifications were prepared by me or under my direction.

Engineer_______________________________________________________________________

Name Registration No. Seal

Firm__________________________________________________________________________

Address_______________________________________Telephone No.____________________

Signature______________________________________ Date ___________________________

2. Certification of Application

I/We hereby certify that I/we are familiar with the contents of this application, the attached schedules, and am/are authorized to sign this application in accordance with KAR 4-13-25 through 4-13-25l. I/We agree and understand that conditions of construction approval are the I/we construct and operate the containment system(s) as submitted in this application and conform to all requirements of KAR 4-13-25 through 4-13-25l.

Authorized Applicant:

Name__________________________________________ Title __________________________

Signature ___________________________________________Date ______________________

Company Name ________________________________________________________________
Schedule A - New Pesticide Facility

Facility Name _________________________________________________________________________

Project Location _______________________________________________________________________

Address City County

This information is required for all pesticide facility construction applications. Documents and information required by this schedule are to verify that the operational area containment, collection and recovery system(s) conform to the requirements of KAR 4-13-25 through 4-13-25l. Construction plans, engineering drawings, flow diagrams, and descriptions must be adequate to illustrate your plans.

1. Location Area Map - Provide a location map of the area surrounding the facility. Identify the relative locations of the following on the map, or by notations, the distance and direction: a) All water wells within 1,320 feet and all abandoned wells within the property boundary; b) Surface water flow path to area lakes, streams or storm water drains; c) Notation of soil type and approximate ground water depth at the facility location. Preferably, this location map should be done on a copy from the U.S. Geological Survey Quadrangle Map, or the County Plat Book with adequate scale to show required details.

2. Plot Plan - Provide a plot plan showing all facility structures, storage tanks, facility well, connections to public water systems, storm sewers and drainage tile within property boundaries and use of adjacent property. Identify all containment structures and operational areas, including unloading, loading, blending and equipment washing pads. Topography of property can be shown by contour lines or notation and arrows depicting surface water flow across and from facility. The plot plan should be drawn to a reasonable scale or adequately dimensioned.

3. Water Supply/Well Protection Plan - Provide a schematic flow diagram of the facility water distribution system between facility well and/or public water system connection and all process or operational use points. Identify backflow protection (break-tank, fixed air gap, reduced pressure principle backflow valves) on diagram.

4. Operational and Management Practices Plan - This requires a narrative description of the practices that will be employed at the facility for handling recovered materials, accumulated precipitation, and to minimize the volume of recovered materials generated. The following should be included:

   a) List total storage capacity available at the facility.

   b) Methods of storage, reuse, or disposal and estimated quantity of solutions and solids recovered in the operational area containment and recovery system(s).

   c) Methods for handling storm water collected in operational area and secondary containment systems. This may include practices to keep containment systems clean to prevent storm water contamination and special precaution taken to ensure contaminated storm water is not discharged. Define differences in practices employed off-season such as by-pass or operational area collection systems.

   d) Methods utilized to minimize the collection or contamination of collected storm water, quantity of rinsates, solutions, and solids. These practices include use of pressure washers, rinsing and washing application equipment in the field, reducing operational spillage, containers to catch predictable spillage, diversion of roof and surface water flow, buildings or covers over containment systems, and management practices to minimize contamination of collected storm water.
Schedule A - New Pesticide Facility Summary

Facility Name_________________________________________________________________________

1. Location Area Map included in application: Yes_______ No_______
   Community Well(s) within 1,320 feet? No_______ Yes_______ Feet_______
   Private Well(s) within 1320 feet? No_______ Yes_______ Feet _______
   Approximate Groundwater Depth __________ Feet Soil Type _________________
   Abandoned Well(s)? No_______ Yes_______ Feet _______
   Oil _______ Gas _______ Water _______

   Nearest Down Gradient Surface Water - Name of lake, stream and approximate distance:

________________________________________________________________________________
________________________________________________________________________________

2. Plot Plan is included in application: Yes _______ No _______
   Approximate size of facility property: __________ x __________ feet

3. Water System Protection Flow Diagram attached: Yes _______ No _______
   Facility well at location? No _______ Yes _______, Depth _______ feet
   Connection to public water system? Yes _______ No _______
   Indicate Backflow Protection type, E = existing or P = planned, and installation date(s):
   _____ Break Tank (____/_____/____)
   _____ Fixed Air Gap (____/_____/____)
   _____ Reduced Pressure Principle Backflow Valves (____/_____/____)

   Do you wash application vehicles at the facility? Yes _______ No _______
   Is a storm water by-pass arrangement used or planned for your operational area?
   No _______ Yes, explain ____________________________________________________________
   ______________________________________________________________________________
Schedule B - Load Pad and Operational Area

Facility Name

Project Location

Documents and information required by this schedule are to verify that the operational area containment, collection and recovery system(s) conform to the requirements of KAR 4-13-25 through 4-13-25l. Construction plans, engineering drawings, flow diagrams, and descriptions must be adequate to illustrate your plans.

1. Construction plans and specifications: Provide plans and elevation drawings of all operational area containment structures and the collection and recovery system with overall and component dimensions and elevations referenced to a single facility bench mark. Cross-sections must show construction details, elevations, and dimensions of loading pad floor, curbs, sumps, catchment basins, and all transfer structures and piping. Identify all construction materials and specifications.

2. Loading Area Containment: On the containment structure drawing show capacity and layout of collection and recovery system, including storage tanks, pumps and piping system. Provide detailed drawing notes indicating a) capacity in gallons of the largest vehicle tank normally loaded; b) Total gallon capacity of containment structure; c) Gravity or automatic transfer system tank capacity in gallons used for containment; d) Capacity of largest blending or makeup tank over pad.

3. Collection and Recovery System Flow Diagram: Provide a schematic flow diagram of the collection and recovery system from the containment collection sump to recovery storage tanks and to reuse loading or mixing operation, and any provisions for storm water by-pass. Show and label all components showing pertinent features, sizes, capacities, and flow rates.

4. Unloading Area Containment: Describe methods or systems used to catch and recover spillage from unloading operation. Provide drawings of permanent structures.

5. Washing Area Containment: Provide drawing of wash pad and recovery system if a separate structure is used for this purpose.

6. Blending Area Containment: Describe methods or systems used to catch and recover spillage from these operations. Provide sketches or drawings if necessary to explain.

7. Transfer Structures: Describe preventative maintenance practices to ensure below grade transfer structures (sumps, collections tanks, wet wells, scale pits, etc.) are sealed to prevent leakage.

8. Construction Time Table: Provide approximate dates on summary.
Schedule B - Load Pad and Operational Area Summary

Facility Name

1. Construction plans and specifications are provided for systems checked:
   _____ Loading area containment
   _____ Unloading area containment
   _____ List Other Systems

2. Loading Area Containment Capacity - Provide gallons for each:
   Capacity of largest vehicle tank loaded................................................................. ____________
   Total capacity of containment structure and sumps................................................ _______
   Available collection tank capacity with automatic transfer...................................... _______
   Capacity of largest mixing tank or make-up tank over pad .................................... _______

3. Collection and Recovery System Flow Diagram
   Number or recovery storage tanks _______ Capacity of each _________________________

   Are provisions provided for storm water by-pass? Yes _______ No _______

4. Unloading Area Containment - Describe system used and note drawing number:

5. Blending Area Containment - Describe system used and note drawing number:

6. Washing Area Containment - Describe methods and note drawing number:

7. Transfer Structures - Are any below grade structures used for spill collection in the containment systems? No _______ Yes _______ If yes, check type below and provide details including capacity and material of construction.
   _____ Scale Pit
   _____ Below Pad Tank
   _____ Gravity Fill Tank
   _____ Other: ________________________________

8. Construction Time Schedule Dates:
   Start Date: (____/_____/______)
   Completion Date: (____/_____/______)
   Operational Date: (____/_____/______)

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Schedule C - Dry Pesticide Storage, Handling and Blending

Facility Name _________________________________________________________________________

Project Location _______________________________________________________________________

Street Address City County

Documents and information required by this schedule are to verify that dry pesticide storage, handling, and blending operations conform with the requirements of KAR 4-13-25 through 4-13-25l. Narrative, drawings, or schematic flow diagrams may be used to describe the facility storage methods and operational processes and to illustrate your plans for containment and recovery of spillage and to minimize emissions.

1. Plot Plan: On the facility plat plan (Schedule A) or a separate drawing, show the storage building, blending area, unloading and loading locations, and the distance and location of the nearest residence and commercial building.

2. Process Flow Diagram: Provide a schematic flow diagram of all processes including: Truck/Rail Unloading, Storage, Weighing, Blending, Impregnation, Applicator/Truck Loading, and all associated conveyor and front-end loader transfer operations. Identify each function or process, show flow rates and type of conveyors, blender and other equipment. Show by graphics or notations the processes that are enclosed or under roof.

3. Storage Facilities: Describe storage buildings and, if necessary, provisions to prevent ground or surface water pollution. If additional space is needed, attach a separate sheet.

4. Containment and Recovery of Spillage: Describe the containment or collection of spillage and the clean-up practices or recovery methods planned for all exposed outdoor operational processes. These may include unloading, loading, conveying, front-end loader handling, weighing, and blending. Describe the provisions for the diversion of surface water flow around the operations. If additional space is needed, attach a separate sheet.

Describe or provide drawings of operational containment and recovery systems for pesticide impregnation operations including provisions for blender/equipment wash water collection. If additional space is needed, attach a separate sheet.

5. Particulate Emission Control: Describe methods, equipment or techniques used to minimize particulate matter/dust emissions. If additional space is needed, attach a separate sheet.

Schedule C - Dry Pesticide Storage, Handling and Blending Summary

Facility Name ________________________________________________________________

1. Dry pesticide facilities, distance and location of nearest residence(s) and/or commercial building(s) shown on: (check)
   Plot Plan _______ Separate Drawing _______

2. Process Flow Diagram is attached: Yes _______ No _______
   On each process below, place an “E” to designate enclosed, “R” to designate under-roof only, or an “O” for any exposed outdoor operation.

   _____ Unloading   _____ Storage   _____ Front End Loader Handling
   _____ Weighing   _____ Blending   _____ Loading   _____ Conveyor

3. Storage Facilities: Describe __________________________________________________________

   __________________________________________________________________________________

4. Containment and Recovery of Spillage: Describe for each process exposed outdoors and note drawing number(s)________________________________________________________________________

   __________________________________________________________________________________

5. Particulate Emission Control: Describe for each process exposed outdoors:_____________________

   __________________________________________________________________________________

   Odor Emission Control Methods:_______________________________________________________

   __________________________________________________________________________________

Operational Date: (___/_____/______)

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Schedule D - Facility Modification Schedule

Facility Name ___________________________________________________________________________

Project Location _________________________________________________________________________

Street Address City County

KAR 4-13-25 through 4-13-25l requires that a facility be approved prior to any modification. By definition “Modification” means changes in structures, processes, or activities at a pesticide facility which alters the efficiency of containment structures or systems. Construction plans, engineering drawings, flow diagrams, and descriptions must be adequate to illustrate your plans.

This includes any change that modifies the approved facility design capability of secondary or operational area containment structures. An obvious example is a change or addition to storage tanks within the containment area resulting in increased tank base displacement volume or increased volume for largest tank.

1. Application for Facility Modification: Complete the Application for Construction Approval form with the appropriate approval signatures and submit along with this schedule. Configuration changes in containment structures may require amendment to previous drawings and/or the related schedule. In many cases the facility modification can be adequately covered on this schedule.

2. Reference to Existing Application: Schedule _______ Drawing Number _______

Description of containment structure or system involved:____________________________________
_________________________________________________________________________________
_________________________________________________________________________________

3. Storage Tank Changes: Describe Tank Change___________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

Containment Capacity: Existing ________ gal. Modified _________ gal.

 Minimum capacity required by KAR 4-13-25 through 4-13-25l ________ gal.

4. Other Modification: Describe the planned changes: (If additional space is needed, attach a separate sheet.)
_________________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________

Describe the change in structure or system efficiency: (If additional space is needed, attach a separate sheet.)
_________________________________________________________________________________
_________________________________________________________________________________