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Facility Name: **World Agritech Corporation**

Application Number: **14-4562**

Date: **November 23, 1998**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCE(S)

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Ohio Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code

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(OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 15 days of the effective date of this permit to install.

PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

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PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be made at least 90 days prior to start-up of the source.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **World Agritech Corporation** located in **Clermont** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>
K002 Cont'd	
K001	Miscellaneous metal parts paint booth

K002	Miscellaneous metal parts paint booth
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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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BAT
Determination

Use of
compliant
coatings and
usage
limitations.
Compliance
with air
toxics policy.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
		3745-17-11 (B)		0.551 pound PM-PM ₁₀ /hour 2.41 TPY PM-PM ₁₀ *
	Applicable Federal & <u>OAC Rules</u>	3745-21-09 (U) (1) (c)	Permit Allowable Mass Emissions and/or <u>Control/Usage Requirements</u>	See Additional Special Term and Condition A.3.
3745-31-05			181.1 pounds VOC/day 9.56 TPY VOC	
3745-15-07			See General Terms	
3745-17-07			See Additional Special Term and Condition A.5.	
3745-17-11 (B)			0.551 pound PM-PM ₁₀ /hour 2.41 TPY PM-PM ₁₀ *	
3745-21-09 (U) (1) (c)			See Additional Special Term and Condition A.3.	
3745-31-05			181.1 pounds VOC/day 9.56 TPY VOC	
3745-15-07			See General Terms	
3745-17-07			See Additional Special Term and Condition A.5.	

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* PM = PM₁₀

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Organic Compound	19.12
PM	4.82
PM ₁₀	4.82
Individual HAP's	9.9
Combined HAP's	24.9

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Hamilton County Dept. of Env. Services, 1632 Central Parkway, Cincinnati, OH 45210.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering

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practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Hamilton County Dept. of Env. Services, 1632 Central Parkway, Cincinnati, OH 45210.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Applicable Emissions Limitations and/or Control Requirements

1. The potential emissions [as defined by OAC rule 3745-77-01(BB)] of Hazardous Air Pollutants (HAPs) as identified in Section 112(b) of Title III of the Clean Air Act from this facility shall be less than 10 TPY for any single HAP and 25 TPY for any combination of HAPs. Compliance with the above limitations shall be determined on a rolling, 12-month summation.
2. For pounds per day and annual emissions limitations for emissions units K001 and K002, see the Air Emissions Summary page of this permit.
3. The permittee shall not employ coatings in emissions units K001 and K002 with a VOC content greater than 3.5 pounds per gallon, excluding water and exempt solvents, as applied.

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4. The permittee shall not employ cleanup materials in emissions units K001 and K002 with a VOC content greater than 6.55 pounds of VOC per gallon, as applied.
5. Visible particulate emissions from each emissions units K001 and K002 shall not exceed 20 percent opacity, as a six minute average, except as specified by rule.

B. Operational Restrictions

1. The maximum coating usage for each emissions units K001 and K002 shall not exceed 48 gallons per day and 4900 gallons per year, excluding water and exempt solvents.
2. The maximum cleanup material usage for each emissions units K001 and K002 shall not exceed 2 gallons per day and 300 gallons per year.

C. Monitoring and Recordkeeping Requirements

1. The permittee shall collect and record the following information each month for the entire facility:
 - a. the name and identification number of each coating, as employed;
 - b. the individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
 - c. the total combined HAP content of each coating in pounds of combined HAPs per gallon of coating, as applied [sum all the individual HAP contents from (b)];
 - d. the number of gallons of each coating employed;
 - e. the name and identification of each cleanup material employed;
 - f. the individual HAP content for each HAP of each cleanup material in pounds of individual HAP per gallon of cleanup material, as applied;

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- g. the total combined HAP content of each cleanup material in pounds of combined HAPs per gallon of cleanup material, as applied [(sum all the individual HAP contents from (f))];
- h. the number of gallons of each cleanup material employed;
- i. the total individual HAP emissions for each HAP from all coatings and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (b) times (d) for each coating and the sum of (f) times (h) for each cleanup material];
- j. the total combined HAP emissions from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) for each coating plus the sum of (g) times (h) for each cleanup material];
- k. the updated rolling, 12-month summation for individual HAP emissions for each HAP, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI; and,
- l. the updated rolling, 12-month summation for total combined HAP emissions, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months. For the first twelve months following the issuance of the permit, this shall be a cumulative total for all months since the issuance of the PTI.

A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Hamilton County Dept. of Env. Services contact. This information does not have to be kept on a line-by-line basis.

- 2. The permittee shall collect and record the following information for each month for emissions units K001 and

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K002 for the purpose of determining annual VOC emissions(these records shall be maintained separately for each of these emissions units):

- a. the name and identification number of each coating and cleanup material employed;
 - b. the number of gallons, of each coating employed per month, excluding water and exempt solvents;
 - c. the number of gallons, of each cleanup material employed per month;
 - d. the VOC content of each coating, in pounds per gallon, excluding water and exempt solvents, as applied;
 - e. the VOC content of each cleanup material, in pounds per gallon; and,
 - f. the total VOC emissions for all the coating and cleanup materials, in tons per month. The sum of $[(b)*(d)] + [(c)*(e)]/2000$.
3. Each record of any monitoring data, testing data and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. Such records may be maintained in computerized form.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any monthly record showing any of the following exceedances for emissions units K001 and K002:
 - a. an exceedance of the annual usage or emission limitation; and,
 - b. an exceedance of the coating or cleanup VOC

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content limitation.

The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days following the end of the calendar month.

2. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emissions limitations set forth in this Permit to Install. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
3. The permittee shall submit semi-annual reports which specify the total VOC emissions from emissions units K001 and K002 for the previous six calendar months. These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous six calendar months (July through December and January through June, respectively).
4. The permittee shall submit required reports in the following manner:
 - a. reports of any required monitoring and/or record-keeping information shall be submitted to the Hamilton County Dept. of Env. Services; and,
 - b. except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive

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measures which have been or will be taken, shall be submitted to the Hamilton County Dept. of Env. Services. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 30, April 30, July 30, and October 30 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06).

E. Compliance Methods/Testing Requirements

1. USEPA Methods 24 and 24A shall be used to determine the VOC content for coatings and cleanup materials employed in emissions units K001 and K002. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.
2. Compliance with annual VOC emission limit and the annual coating usage limit shall be determined by the recordkeeping requirements in section C.2. of this permit.
3. Compliance with the particulate emission limitation shall be demonstrated by the following:
 - a. $\text{Pounds/Hour} = \text{Weight of gallon of coating} \times \text{percent by weight of solids} \times \text{gallons of coatings per hour} \times 1\text{-TE (transfer eff.)} \times 1\text{-CE (control eff.)}$, where TE = 0.5 and CE = 90 percent.
 - b. $\text{TPY} = \text{Weight of gallon of coating} \times \text{percent by weight of solids} \times \text{gallons of coatings per year} \times 1\text{-TE (transfer eff.)} \times 1\text{-CE (control eff.)} \times 1/2000$, where TE = 0.5 and CE = 90 percent.

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4. Compliance with the visible emissions limitations in section A.5 shall be determined by Method 9, 40 CFR 60 Appendix A.
5. Compliance with the HAP limitation shall be determined by the recordkeeping requirements in section C.1 of this permit.

F. Miscellaneous Requirements

1. The daily emission limitation(s) outlined are based upon the emissions unit's PTE. Therefore, no daily records are required to demonstrate compliance with these limits.
2. This permit allows the use of the coatings and cleanup materials specified by the permittee in the application for PTI number 14-4562. In conjunction with the best available technology requirements of OAC rule 3745-31-05, the VOC emission limitation(s) specified in this permit was (were) established in accordance with the Ohio EPA's "Air Toxics Policy" and is (are) based on both the coating and cleanup material formulation data and the design parameters of the emissions unit's exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" was demonstrated for each pollutant based on the Screen 3 model and a comparison of the predicted 1 hour maximum ground-level concentration to the MAGLC.

The following summarizes the results of the modeling for each pollutant:

Pollutant: Isobutanol

TLV (ug/m3): 152

Maximum Hourly Emission Rate (lbs/hr): 3.6 each

Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 806.6 (K001 and K002 combined)

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 3619

Pollutant: Xylene

TLV (ug/m3): 434

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Maximum Hourly Emission Rate (lbs/hr): 4.48 each
Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 1003.6 (K001 and K002 combined)
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 10,333

Pollutant: Methyl Ethyl Ketone

TLV (ug/m3): 590

Maximum Hourly Emission Rate (lbs/hr): .896 each
Predicted 1 Hour Maximum Ground-Level Concentration at the Fenceline (ug/m3): 200.8 (K001 and K002 combined)
Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 14048

Any of the following changes may be deemed a "modification" to the emissions unit and, as such, prior notification to and approval from the Hamilton County Dept. of Env. Services are required, including the possible issuance of modifications to PTI number 14-4562 and the operating permit:

- a. any changes in the composition of the coatings or cleanup materials, or the use of new coatings or cleanup materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;
- b. any change to the emissions unit or its exhaust parameters (e.g., increased emission rate, reduction of exhaust gas flow rate, and decreased stack height) that would result in an exceedance of any MAGLC specified in the above table;
- c. any change to the emissions unit or its method of operation that would either require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01;
- d. any change in the composition of the coatings or

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cleanup materials, or use of new coatings or cleanup materials, that would result in the emission of any of the exempted organic compounds included in the definition of "VOC" [OAC rule 3745-21-01(B)(6)]; and,

- e. any change in the composition of the coatings or cleanup materials, or use of new coatings or cleanup materials, that would result in an increase in emissions of any "Hazardous Air Pollutants" (HAPS) as defined in OAC rule 3745-77-01(V).