State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
CUYAHOGA COUNTY

Street Address:
122 S. Front Street

Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 13-04652
Fac ID: 1318008493
DATE: 10/3/2006

Besten Equipment, Incorporated
Robert Vinson
4416 Lee Road
Cleveland, OH 44128

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: **USEPA** **CLAA**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install	**Issue Date: 10/3/2006**
Terms and Conditions	**Effective Date: 10/3/2006**

FINAL PERMIT TO INSTALL 13-04652

Application Number:	13-04652
Facility ID:	1318008493
Permit Fee:	**$200**
Name of Facility:	Besten Equipment, Incorporated
Person to Contact:	Robert Vinson
Address:	4416 Lee Road Cleveland, OH 44128

Location of proposed air contaminant source(s) [emissions unit(s)]:
6680 Parkland Boulevard
Solon, **Ohio**

Description of proposed emissions unit(s):
Miscellaneous Metal Parts Coating Booth and Gas-Fired Air Make-up Unit -- K001 and B001.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Joseph P. Koncelik

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

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 measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. 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 31, April 30, July 31, and October 31 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.)

3. Records Retention Requirements

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 be 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.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. 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.

9. Construction of New Sources(s)

The proposed emissions unit(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 cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the 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 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 cannot meet the requirements of this permit or cannot meet applicable standards.

10. 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.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. 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.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a 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. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons Per Year
VOC	12.25
VOC Clean UP	1.19
Single HAP	9.5
Combined HAPs	24.5

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
K001 - Misc. Metal Parts Coating Booth with a 2.7 mmBtu/hr drying oven	OAC rule 3745-31-05(A)(3)	21.35 lbs/hr and 12.25 tons/yr of volatile organic compound (VOC) from coatings 1.19 ton/yr VOC from cleanup materials
	ORC 3704.03(T)(4)	See Additional Terms and Conditions A.2.b below.
	OAC rule 3745-21-09(U)(1)(c)	3.5 lbs VOC/gal coating, less water and exempt solvents
	OAC rule 3745-31-05(C) Synthetic Minor to avoid Title V, Nonattainment NSR, and MACT	See Additional Terms and Conditions A.2.a and B.2 below.

2. Additional Terms and Conditions

2.a The total allowable usage and emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from emissions units at this facility (K001) shall not exceed 9.5 tons/year for any individual HAP or 24.5 tons/year for any combination of HAPs. Compliance with the above limitations shall be based upon a rolling, 12-month summation.

2.b The Best Available Technology (BAT) requirements under OAC rule

3745-31-05(A)(3) do not apply to the nitrogen oxide (NOx), carbon monoxide (CO), sulfur dioxide (SO2), and particulate (PE) emissions from this air contaminant source since the uncontrolled potential to emit for NOx, CO, SO2, and PE is less than ten tons per year.

B. Operational Restrictions

1. The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation.

2. The maximum annual coating usage for this emissions unit shall not exceed 7,000 gallons, based upon a rolling, 12-month summation of the coating usage figures.

   To ensure enforceability during the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, the permittee shall not exceed the coating usage levels (for K001) specified in the following table:

Month(s)	Maximum Allowable Cumulative Coating Usage, in gallons, for K001
1	1,000
1-2	2,000
1-3	2,500
1-4	3,000
1-5	3,500
1-6	4,000
1-7	4,500
1-8	5,000
1-9	5,500
1-10	6,000
1-11	6,500
1-12	7,000

   After the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the coating usage figures.

C. Monitoring and/or Record keeping Requirements

1. The permittee shall maintain daily records that document any time periods when the dry

filtration system was not in service when the emissions unit was in operation.

2. The permittee shall collect and record the following information each day for the coating booth:

   a. the name and identification number of each coating employed;

   b. the VOC content (excluding water and exempt solvents) of each coating, as applied;

   c. the number of gallons (excluding water and exempt solvents) of each coating, as applied;

   d. the daily VOC emissions from all the coatings employed, in pounds, [i.e., the sum of (b) times (c) for each coating employed];

   e. the daily volume-weighted average VOC content of all the coatings, as applied, calculated in accordance with the equation specified in paragraph (B)(9) of OAC rule 3745-21-10 for $C_{VOC,2}$;

   f. the total number of hours this emissions unit was in operation; and

   g. the average hourly VOC emissions from all coatings employed, in pounds [i.e., the quotient of (d) divided by (f)].

   Note: If the VOC content of each of the coatings employed during a day is less than 3.5 lbs per gallon, as applied, excluding water and exempt solvents, the daily volume-weighted average VOC content record is not required for that day.

3. The permittee shall collect and record the following information for each month for this emissions unit:

   a. The company identification of each cleanup material employed.

   b. The number of gallons of each cleanup material employed.

   c. The VOC content of each cleanup material employed, in pounds per gallon.

   d. The total VOC emissions from all the cleanup materials employed, in pounds [i.e., the sum of (b) times (c) for each cleanup material employed].

e. The amount of cleanup material recovered, in pounds.

f. The total monthly VOC emissions from cleanup operations, in pounds [i.e., (d) - (e)].

4. The permittee shall maintain monthly records of the following information for the facility (K001):

a. the name and identification number of each HAP containing material employed;

b. the individual HAP content for each HAP, in pounds of individual HAP per gallon of material;

c. the total combined HAP content, in pounds of combined HAPs per gallon of material [sum all the individual HAP contents from (b)];

d. the number of gallons, of each HAP containing material employed;

e. the total individual HAP usage for each HAP from all HAP containing materials, in pounds or tons per month [for each HAP the sum of (b) times (c) for each material];

f. the total combined HAP usage from all HAP containing materials, in pounds or tons per month [the sum of (c) times (d) for each material];

g. the updated rolling, 12-month summation of usage and emissions for each individual HAP, in tons. This shall include the information for the current month and the preceding eleven calender 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

h. the updated rolling, 12-month summation of usage and emissions for the total combined HAPs, in 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 this 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 Cleveland Division of Air Quality (CDAQ) contact. This information does not have to be kept on an individual emission unit basis.

5. The permit to install for this emissions unit was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application of SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Acetone
TLV (mg/m^3): 1187.12
Maximum Hourly Emission Rate (lbs/hr): 0.27
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 17.78
MAGLC (ug/m3): 28265

Pollutant: Ethylbenzene
TLV (mg/m3): 434.19
Maximum Hourly Emission Rate (lbs/hr): 2.50
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 164.68
MAGLC (ug/m3): 10338

Pollutant: Mineral Spirits
TLV (mg/m^3): 572.60
Maximum Hourly Emission Rate (lbs/hr): 26.29
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1731.72
MAGLC (ug/m3): 13633

Pollutant: VMP Naphtha
TLV (mg/m^3): 1398.77
Maximum Hourly Emission Rate (lbs/hr): 3.90
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 256.89
MAGLC (ug/m3): 33304

Pollutant: Xylene
TLV (mg/m^3): 434.19
Maximum Hourly Emission Rate (lbs/hr): 13.72
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 903.74
MAGLC (ug/m3): 10338

6. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

   a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the

emissions 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 previously modeled;

b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

7. If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

8. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emission unit will still satisfy the "Air Toxic Policy."

a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and

c. Where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

1. The permittee shall notify the CDAQ in writing of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. This notification shall include a copy of the record and shall be sent within 30 days after the

event occurs.

2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month limitation on coating usage; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative coating usage levels. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

3. The permittee shall notify the CDAQ in writing of each daily record showing a daily volume-weighted average greater than 3.5 pounds VOC per gallon, as applied, excluding water and exempt solvents. The notification shall include a copy of such record and shall be sent to the CDAQ within 30 days after the exceedance occurs.

4. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the rolling, 12-month individual HAP material usage and emissions exceed 9.5 tons/year or any combination of HAP material usage and emissions exceed 24.5 tons/year, based on a rolling, 12 month summation, and the actual rolling, 12 month individual HAP emissions for each such month. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

   a. <u>Emission Limitation</u>
   21.35 lbs VOC/hr (from coating)

   <u>Applicable Compliance Method</u>
   The hourly limit is the potential to emit based on using the coating with the highest VOC content at the maximum hourly usage rate as shown in the following calculation:
   (6.1 gal/hr)(3.5 lbs VOC/gal) = 21.35 lbs VOC/hr

   b. <u>Emission Limitation</u>
   12.25 tpy VOC (from coating)

   <u>Applicable Compliance Method</u>

Compliance shall be determined based on the record keeping requirements in section C.2.

c. Emission Limitation
3.5 lbs VOC/gal less water and exempt solvents.

Applicable Compliance Method
Compliance shall be determined based on a daily volume-weighted average of all coatings employed on each day. Compliance shall be determined based on the record keeping from section C.2 using the formula from OAC rule 3745-21-10(B)(9) for $C_{VOC,2}$ as follows:

$$(C_{VOC,2})_A = \frac{\sum_{i=1}^{n} C_{VOC,2i}\, L_{Ci}(V_{Si} + V_{VOCi})}{\sum_{i=1}^{n} L_{Ci}(V_{Si} + V_{VOCi})}$$

where:
A = subscript denoting that the indicated VOC content is a weighted average of the coatings employed during time period t.
LC = liquid volume of coating employed during time period t, in gallons of coating.
i = subscript denoting a specific coating employed during time period t.
n = total number of coatings employed during time period t.
t = time period specified for the weighted average VOC content.
$C_{VOC,2}$ = VOC content in pounds of VOC per gallon of coating, excluding water and exempt solvents.
VS = volume fraction of solids (nonvolatile matter)in coating, in gallon of solids per gallon of coating.
V_{VOC} = VVM - VW - VES
VVM = volume fraction of volatile matter in coating, in gallon of volatile matter per gallon of coating.
VW = volume fraction of water in coating, in gallon of water per gallon of coating.
VES = volume fraction of exempt solvent in coating, in gallon of exempt solvent per gallon of coating.

U.S. EPA Methods 24 shall be used to determined the VOC content for each coating. If it is demonstrated to the satisfaction of the Director that each coating

formulation data is equivalent to Method 24 results, formulation data based on weight percentage of VOC components in the coating may be used. In the event of any inconsistency between a Method 24 test and the facility's formulation data, the Method 24 test will govern.

d. Emission Limitation
1.19 tpy VOC (cleanup)

Applicable Compliance Method
Compliance shall be determined based on the record keeping requirements in section C.3.

e. Emission Limitation
9.5 tons individual HAPs/year, as a 12-month rolling summation

Applicable Compliance Method
Compliance shall be determined based upon the record keeping specified in section C.4.

f. Emission Limitation
24.5 tons individual HAPs/year, as a 12-month rolling summation

Applicable Compliance Method
Compliance shall be determined based upon the record keeping specified in section C.4.

F. Miscellaneous Requirements

None.