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G-000-104.181

**RENEWAL OF PERMIT TO OPERATE - MAINTENANCE SHOP PAINT
SPRAY BOOTH AT THE FERNALD ENVIRONMENTAL MANAGEMENT
PROJECT (OEPA) NO. 1431110128 K002**

09/06/95

**C:EC:95-0115
FERMCO HAMILTON COUNTY
16
PTO**



Restoration Management Corporation

P.O. Box 398704 Cincinnati, Ohio 45239-8704 (513) 738-6200

September 6, 1995

Fernald Environmental Management Project
Letter No. C:EC:95-0115

Mr. Peter Sturdevant, Compliance Specialist
Air Quality Management Division
Hamilton County Department of Environmental Services
1632 Central Parkway
Cincinnati, Ohio 45210

Dear Mr. Sturdevant:

RENEWAL OF PERMIT TO OPERATE - MAINTENANCE SHOP PAINT SPRAY BOOTH AT THE FERNALD ENVIRONMENTAL MANAGEMENT PROJECT (OEPA) NO. 1431110128 K002

Enclosed is the renewal application for the maintenance shop paint spray booth at the FEMP for which the permit to operate is scheduled to expire.

Please contact Ervin Fisher of my staff at (513) 648-5293 if you have any questions about this application.

Sincerely,

Terence D. Hagen
Director
Environmental Compliance

TDH:EF:mhv
Enclosure

- c: S. M. Beckman, FERMCO/MS65-2 - w/o enclosure
- E. Fisher, FERMCO/MS65-2
- P. H. Raab, FERMCO/MS56 - w/o enclosure
- E. P. Skintik, DOE-FN/MS45
- P. B. Spotts, FERMCO/MS65-2 - w/o enclosure
- AR Coordinator
- File Record Storage Copy 108.6
- RTS Files (K002)

**OHIO ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR A PERMIT TO OPERATE
AN AIR CONTAMINANT SOURCE**

D.O.E.-Fernald Environmental Management
Facility Name Project

Mr. Stephen M. Beckman
Person to Contact

7400 Willey Road
Facility Address

Post Office Box 538705
Mailing Address

Fernald Hamilton 45030
City County Zip

Cincinnati OH 45253-8705
City State Zip

513/ 648-5264
Telephone Area Number

513/ 648-5264
Telephone

#1431110128-K002
(Application no., if this is a renewal application)

4953
Std. Ind. Class. Code

1. Complete and attach any of the following appendices most appropriate to the air contaminant source. In addition, a compliance time schedule form is to be attached when applicable. Check as appropriate the following:

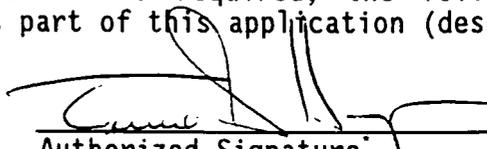
- Appendix A, Process
- Appendix B, Fuel-Burning Equipment
- Appendix C, Incinerator
- Appendix D, Surface Coating or Printing Operation
- Appendix E, Storage Tank
- Appendix H, Gasoline Dispensing Facility
- Appendix J, Loading Rack at Bulk Gasoline Plant or Terminal
- Appendix K, Surface Coating Line or Printing Line

- Appendix L, Solvent Metal Cleaning
- Appendix M, Fugitive Dust Emission Sources
- Appendix N, Rubber Tire Manufacturing
- Appendix O, Dry Cleaning Facility
- Appendix P, Landfills
- Other Appendix _____
- Compliance Time Schedule

2. Description of Source (same as used on appendix): Paint Spray Booth
Maintenance Shop
3. Your identification for Source (same as used on appendix): FEMP # 12-004

I, being the individual specified in Rule 3745-35-02(B) of the Ohio Administrative Code, hereby apply for a Permit to Operate the air contaminant source(s) described herein. As required, the following additional documents are submitted as part of this application (describe all attachments):

Appendix D
Emission Calculations
Process Flow Diagram



Authorized Signature
Terence D. Hagen
Director Environmental Compliance
Title

9/5/95
Date

*Pursuant to OAC Rule 3745-35-02(B) (Permit to Operate).

Premise No. ___ / ___ / ___ / ___
Source No. ___ / ___
Application No. ___ / ___

APPENDIX D*

SURFACE COATING OR PRINTING OPERATION

1. This appendix is submitted a:

[X] Surface coating operation (check one below):

- Paint spray booth
- Dip tank
- Spray Coating (Other than paint spray booth)
- Other surface coating operation, describe _____
- Flow coating
- Roller coating

[] Printing or lithographic operation.

2. Name of operation Paint Spray Booth; Your identification 12-004
Year installed 1962

3. Is this operation succeeded by a heated drying or baking operation? [] Yes [X] No
If yes, indicate operating temperature of oven ___ °F.

4. Normal operating schedule: 6.5 hours/day, 7 days/wk., 52 wks./year.
OPERATIONS WILL BE LIMITED TO LESS THAN 10 GALLONS OF PAINT PER DAY

PAINT SPRAY BOOTH

5. Type of spray booth: Enclosed [] Conveyor [] Downdraft
[] Other, describe _____

6. Booth manufacturer Young and Bertke Co. Make or model No. _____

7. Type of spraying: Air gun [] Airless [] Electrostatic
[] Other, describe _____

8. Spraying operation is: Manual [] Automatic

9. Fan manufacturer Hamilton Make or Model No. Type B, Size 34"

10. Booth's exhaust is equipped with: Water wash (Complete item 11)
[] Exhaust filters (Complete item 12)
[] Baffles
[] Other, describe _____
[] None

11. Water wash: (a) Is water recirculated? Yes [] No
(b) Is a chemical added to the water? Yes [] No
(c) Is material reclaimed from wash water? [] Yes No
(d) Describe method for disposal of waste materials: Solid waste (dead pigmentation) floats and is disposed of as RCRA waste. Occasional water change is processed through Plt 8 sump.

* Does not include metal plating

12. Exhaust filters:
- (a) Type of material: Fiberglass Aluminum
 Other, describe _____
- (b) Filter size (inches): Length _____ Width _____ Thickness _____
 No. of filters: _____ No. of filter changes: _____ times per year

13. Describe material painted A variety of metal and some wood objects as required during normal maintenance repairs.

ALL OPERATIONS (Except paint spray booth)

14. Describe type of operation _____

15. Describe method of coating or printing _____

16. Identify and describe type(s) of material coated or printed _____

ALL OPERATIONS

17. Complete the following information for each general type of surface coating or printing material. Report on the material as it is employed after the addition of any pigments, solvents, ect. If there are more than three types of materials, furnish the same data for the additional materials on a separate sheet or another appendix form.

Note: Quantity used reflect both actual and maximum anticipated usage in gallons/year.

(a) Material employed Paint, Grey Epoxy (Coating ID 001) Density 9.7 lbs./gal
 Solids content 50.31 % by volume or _____ % by weight
 Solvent content 49.69 % by volume; Solvent density 7.83 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): Normal _____ Maximum 1.5
 (gallons/year): 100 (132)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
2-Ethoxyethanol	27.4	N
Ketone	6.6	N
Aromatic Hydrocarbon	66	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? Yes No Do not know

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(b) Material employed Paint, Lt. Grey Enamel (Coating ID 002) Density 9.71 lbs./gal
 Solids content 44.96 % by volume or _____ % by weight
 Solvent content 55.04 % by volume; Solvent density 7.2 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year. **3-3139**
 Quantity used (gallons/hour): Normal _____ Maximum 1.5
 (gallons/year): 60 (100)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Mineral Spirits	100	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? [] Yes [X] No [] Do not know

(c) Material employed Paint, White (Coating ID 003) Density 12.7 lbs./gal
 Solids content 53.0 % by volume or _____ % by weight
 Solvent content 47.0 % by volume; Solvent density 7.01 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): Normal _____ Maximum 1.5
 (gallons/year): 55 (75)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by weight	*
Aromatic Hydrocarbon	80	N
Aliphatic Hydrocarbon	20	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? [] Yes [X] No [] Do not know

18. Identify all liquid organic cleanup materials for this process and indicate the amount used per average operating day and per year.

Cleanup Material	*	Gallons Used	
		Daily	Yearly
Mineral Spirits (1001)	N		250
Thinner T-3 (1002)	N		100
Trichloroethane (1003)	N		50
Perma Bond Thinner (1004)	Y		

* If material is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

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19. A PROCESS FLOW DIAGRAM MUST BE INCLUDED WITH THIS APPENDIX. Show entry and exit points of all materials and finished products. Label all materials including airborne contaminants and other waste materials. Label the process equipment and control equipment.

CONTROL EQUIPMENT

20. Type of control equipment: None
 Incinerator, Temp. _____ °F, Thermal/Catalytic (Circle one)
 Adsorption, describe _____
 Condensation, describe _____
 Other, describe _____
21. Manufacturer _____ Model No. _____ Year Installed _____
22. Percent collection or removal efficiency: Design _____ % Operating _____ %
23. For non-incineration method identify specific pollutant controlled _____

STACK DATA

24. Your stack identification EP12-001
25. Are other sources vented to this stack? Yes No
If yes, identify sources _____
26. Type: Round, top inside diameter dimension 34 inch
 Rectangular, top inside dimensions (L) _____ x (W) _____
27. Height: Above roof 10 ft., above ground 35 ft.
28. Exit gas: Temp. AMB °F, Volume 15650 ACFM, Velocity 2492 ft./min.
29. Continuous monitoring equipment: Yes No
If yes, indicate Type _____, Manufacturer _____
Make or Model _____, Pollutant(s) monitored _____
30. Emission data: Emissions from this source have been determined and such data is included with this appendix: Yes No
If yes, check method: Stack Test Emission factor Material balance

Completed by Ervin Fisher Reg/Tech III, Date 08-24-95

17. Complete the following information for each general type of surface coating or printing material. Report on the material as it is employed after the addition of any pigments, solvents, ect. If there are more than three types of materials, furnish the same data for the additional materials on a separate sheet or another appendix form.

(d) Material employed Paint, Red (Coating ID 004) Density 9.4 lbs./gal
 Solids content 49.45 % by volume or _____ % by weight
 Solvent content 50.55 % by volume; Solvent density 7.5 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): _____ Normal _____ Maximum 1.5
 (gallons/year): 60 (70)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
2-ethoxyethanol	37.9	N
Ketone	23	N
Alcohol	11.5	N
Aliphatic Hydrocarbon	11.5	N
Ester	11.5	N
Aromatic Hydrocarbon	4.6	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? [] Yes [X] No [] Do not know

(e) Material employed Paint, Blue (Coating ID 005) Density 8.5 lbs./gal
 Solids content 40 % by volume or _____ % by weight
 Solvent content 60 % by volume; Solvent density 6.3 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): _____ Normal _____ Maximum 1.5
 (gallons/year): 25 (40)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Mineral Spirits	100	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? [] Yes [X] No [] Do not know

- (f) Material employed Paint, Primer-Machine Green (ID #006) Density 8.88 lbs./gal
 Solids content 35 % by volume or _____ % by weight
 Solvent content 65 % by volume; Solvent density 6.3 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): _____ Normal _____ Maximum 1.5
 (gallons/year): 30 (50)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Mineral Spirits	100	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? Yes No Do not know

- (g) Material employed Paint, Yellow (Coating ID 007) Density 8.42 lbs./gal
 Solids content 35 % by volume or _____ % by weight
 Solvent content 65 % by volume; Solvent density 6.3 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): _____ Normal _____ Maximum 1.5
 (gallons/year): 20 (40)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Mineral Spirits	100	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? Yes No Do not know

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(h) Material employed Paint, "U" Primer-Grey (ID # 008) Density 11.8 lbs./gal
Solids content 38.5 % by volume or _____ % by weight
Solvent content 61.5 % by volume; Solvent density 7.81 lbs./gallon
Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
Quantity used (gallons/hour): Normal _____ Maximum 1.5
(gallons/year): 35 (80)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Mineral Spirits	27	N
Xylene	40.5	Y
Aromatic Naphtha	13.5	U
N-Butyl Acetate	19	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? [] Yes [] No [X] Do not know

(i) Material employed Paint, Brown (Coating ID 009) Density 9.92 lbs./gal
Solids content 42 % by volume or _____ % by weight
Solvent content 58 % by volume; Solvent density 6.3 lbs./gallon
Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
Quantity used (gallons/hour): Normal _____ Maximum 1.5
(gallons/year): 9 (15)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Mineral Spirits	100	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? [] Yes [X] No [] Do not know

(j) Material employed Paint deleted from list (ID # 10) Density _____ lbs./gal
 Solids content _____ % by volume or _____ % by weight
 Solvent content _____ % by volume; Solvent density _____ lbs./gallon
 Normal application schedule _____ hrs./day, _____ days/week, _____ wks./year.
 Quantity used (gallons/hour): _____ Normal _____ Maximum _____
 (gallons/year): _____

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? Yes No Do not know

(k) Material employed Paint, Aluminum (Coating ID 011) Density 11.95 lbs./gal
 Solids content 53 % by volume or _____ % by weight
 Solvent content 47 % by volume; Solvent density 6.6 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): _____ Normal _____ Maximum 1.5
 (gallons/year): 5 (25)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Xylene	31.5	Y
Mineral Spirit	68.5	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? Yes No Do not know

(l) Material employed Paint, Black (Coating ID 012) Density 9.2 lbs./gal
 Solids content 44.34 % by volume or _____ % by weight
 Solvent content 55.66 % by volume; Solvent density 7.35 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): Normal _____ Maximum 1.5
 (gallons/year): 14 (28)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
2-Ethoxyethanol	24.2	N
Aromatic Hydrocarbon	75.8	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? [] Yes [X] No [] Do not know

(m) Material employed Paint, White Epoxy (Coating ID 013) Density 10.8 lbs./gal
 Solids content 50.31 % by volume or _____ % by weight
 Solvent content 49.69 % by volume; Solvent density 7.83 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): Normal _____ Maximum 1.5
 (gallons/year): 4 (10)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Xylene	55	Y
Propylene Glycol	27.5	N
Iacetone Alcohol	5	N
Solvent Naphtha	12.5	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? [] Yes [] No [X] Do not know

- (n) Material employed Paint deleted from list (ID # 14) Density _____ lbs./gal
 Solids content _____ % by volume or _____ % by weight
 Solvent content _____ % by volume; Solvent density _____ lbs./gallon
 Normal application schedule _____ hrs./day, _____ days/week, _____ wks./year.
 Quantity used (gallons/hour): Normal _____ Maximum _____
 (gallons/year): _____

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? Yes No Do not know

- (o) Material employed Paint, Acrylic Enamel Latex ID #015 Density 9.59 lbs./gal
 Solids content 34 % by volume or _____ % by weight
 Solvent content 66 % by volume; Solvent density 1.2 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): Normal _____ Maximum 1.5
 (gallons/year): 100 (200)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Water	90.9	N
Diethylene Glycol Monoethyl Ether	9.1	U

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? Yes No Do not know

(p) Material employed Aqua Plastic Varnish (ID #016) Density 8.67 lbs./gal
 Solids content 28.4 % by volume or _____ % by weight
 Solvent content 71.6 % by volume; Solvent density 2.42 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): Normal _____ Maximum 1.5
 (gallons/year): 5 (10)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Water	87.9	N
Propylene Glycol	4.3	N
Diethylene Glycol Monomethyl Ether	7.8	U

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? Yes No Do not know

(q) Material employed Floetrol Reducible Additive ID # 017 Density 8.37 lbs./gal
 Solids content 10 % by volume or _____ % by weight
 Solvent content 90 % by volume; Solvent density 8.34 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): Normal _____ Maximum 1.5
 (gallons/year): 10 (20)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Water	100	N

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? Yes No Do not know

(r) Material employed Perma Bond 100-10 (ID # 018) Density 7.12 lbs./gal
 Solids content 4.0 % by volume or _____ % by weight
 Solvent content 96.0 % by volume; Solvent density 6.64 lbs./gallon
 Normal application schedule 6.5 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): Normal _____ Maximum 1.5
 (gallons/year): 10 (20)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Ethyl Acetate	24	U
Xylene	58.4	Y
Propylene Glycol Methyl Ether	17.6	U

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? Yes No Do not know

(s) Material employed Acrylic Epoxy ID # 019 Density 10.0 lbs./gal
 Solids content 37.5 % by volume or _____ % by weight
 Solvent content 62.5 % by volume; Solvent density 1.13 lbs./gallon
 Normal application schedule 6 hrs./day, 7 days/week, 52 wks./year.
 Quantity used (gallons/hour): Normal _____ Maximum 1.5
 (gallons/year): 25 (50)

Complete the solvent composition by identifying each solvent component and its respective % by volume of the total solvent. (the % by volume should total to 100%).

Solvent Composition		
Solvent	% by volume	*
Water	87.5	N
Xylene	2.4	Y
Triethylamine	2.9	U
Propylene Glycol Monomethyl Ether	7.2	U

* If solvent is photochemically reactive enter "Y", if not photochemically reactive enter "N", if unknown enter "U".

Is the material photochemically reactive? Yes No Do not know

EMISSIONS CALCULATIONS¹

FEMP ID NO; . 12-004

AVERAGE EMISSIONS

Coating ID	Amount Used Gallons	Density lbs/gal	VOC Content	Coating Minus Water Gallons	VOC Content lbs/gal	VOC Emissions lbs
001	100	9.7	49.69	100	3.89	389.1
002	60	9.71	55.04	60	3.96	237.8
003	55	12.7	47.0	55	3.38	186.1
004	60	9.4	50.55	60	3.79	227.5
005	25	8.5	60.0	25	3.78	94.5
006	30	8.88	65.0	30	4.1	122.9
007	20	8.42	65.0	20	4.1	81.9
008	35	11.8	61.5	35	4.8	168.1
009	9	9.92	58.0	9	3.65	32.9
010	Delete					
011	5	11.95	47.0	5	3.1	15.5
012	14	9.2	55.66	14	4.1	57.3
013	4	10.8	49.69	4	3.89	15.6
014	Delete					
015	100	9.59	66.0	40	1.2	48.0
016	5	8.67	71.6	1.85	2.42	4.5
017	10	8.37	90.0	1.0	0	0
018	10	7.12	96.0	10.0	6.64	6.6
019	25	10.0	62.5	11.3	1.13	12.8
Solvents						
1001	250	7.25	100.0	250	7.25	1812.5
1002	100	7.65	100.0	100	7.65	765
1003*	50	11.11	100.0	50	11.11	555.5
1004	10	7.5	100.0	10.0	7.5	75.0
TOTAL	977			891.15		4353.6

ALLOWABLE EMISSIONS

Source will comply with the requirements of OAC 3745-21-09(U)(2)(e)(ii) which limits the maximum amount of coating to ten or less gallons per day for miscellaneous metal parts or products.

MAXIMUM EMISSIONS

Coating ID	Amount Used Gallons	Density lbs/gal	VOC Content	Coating Minus Water Gallons	VOC Content lbs/gal	VOC Emissions lbs
001	132	9.7	49.69	132	3.89	513.5
002	100	9.71	55.04	100	3.96	396.0
003	75	12.7	47.0	75	3.38	253.5
004	70	9.4	50.55	70	3.79	265.3
005	40	8.5	60.0	40	3.78	151.2
006	50	8.88	65.0	50	4.1	205.0
007	40	8.42	65.0	40	4.1	164.0
008	80	11.8	61.5	80	4.8	384.0
009	15	9.92	58.0	15	3.65	54.75
010	Delete					
011	25	11.95	47.0	25	3.1	77.5
012	28	9.2	55.66	28	4.1	114.8
013	10	10.8	49.69	10	3.89	38.9
014	Delete					
015	200	9.59	66.0	80.0	1.2	96.0
016	10	8.67	71.6	3.7	2.42	9.0
017	20	8.37	90.0	2.0	0	0
018	20	7.12	96.0	20.0	6.64	13.2
019	50	10.0	62.5	22.6	1.13	25.6
Solvents						
1001	250	7.25	100.0	250	7.25	1812.5
1002	100	7.65	100.0	100	7.65	765
1003*	50	11.11	100.0	50	11.11	555.5
1004	20	7.5	100.0	20	7.5	150.0
TOTAL	1385			1213.3		5489.75

*Emissions calculations do not include emissions from the Paint Storage Room which is used solely to store paints. (Emissions from the paint storage room are negligible.)

* 1,1,1-Trichloroethane is exempt from reporting of emissions as a VOC due to its negligible photochemical reactivity.

VOC content in lbs/gal of coating = (gallons solvent/gal paint) X (Solvent density in lbs/gal/gal solvent) X {(%VOC X .01)/gallons of coating - water}

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