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Department of Environmental Quality
State Air Program

Cover Sheet **Form CS**

DEQ AIR QUALITY PROGRAM
1410 N. Hilton, Boise, ID 83706
For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

PERMIT TO CONSTRUCT APPLICATION

Revision 3
04/03/07

Please see instructions on page 2 before filling out the form.

DEQ USE ONLY
Date Received
Project Number
Payment / Fees Included? Yes ☐ No ☐
Check Number

COMPANY NAME, FACILITY NAME, AND FACILITY ID NUMBER

1. Company Name	J.R. Leonard Inc. dba MAACO Collision Repair and Auto Painting	
2. Facility Name	MAACO Collision Repair and Auto Painting	3. Facility ID No.
4. Brief Project Description - One sentence or less	Installation of a Garmat Tier 1 Paint Spray Booth and Oven for refinishing automobiles	

PERMIT APPLICATION TYPE

5. ☒ New Facility ☐ New Source at Existing Facility ☐ Unpermitted Existing Source
☐ Modify Existing Source: Permit No.:_____ Date Issued:_____
☐ Required by Enforcement Action: Case No.:_____

6. ☒ Minor PTC ☐ Major PTC

FORMS INCLUDED

Included	N/A	Forms	DEQ Verify
☒	☐	Form GI – Facility Information	☐
☒	☐	Form EU0 – Emissions Units General	☐
☐	☒	Form EU1 - Industrial Engine Information Please Specify number of forms attached: _____	☐
☐	☒	Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached: _____	☐
☒	☐	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached: _____	☐
☐	☒	Form EU4 - Cooling Tower Information Please Specify number of forms attached: _____	☐
☐	☒	Form EU5 – Boiler Information Please Specify number of forms attached: _____	☐
☐	☒	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached: _____	☐
☐	☒	Form CBP - Concrete Batch Plant Please Specify number of forms attached: _____	☐
☐	☒	Form BCE - Baghouses Control Equipment	☐
☐	☒	Form SCE - Scrubbers Control Equipment	☐
☒	☐	Forms EI-CP1 - EI-CP4 - Emissions Inventory– criteria pollutants (Excel workbook, all 4 worksheets)	☐
☒	☐	PP – Plot Plan	☐
☐	☒	Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	☐
☒	☐	Form FRA – Federal Regulation Applicability	☐

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Revision 3
4/5/2007

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Company Name:	**J.R. Leonard, Inc.**
Facility Name:	MAACO Collsion Repair and Auto Painting
Facility ID No.:	
Brief Project Description:	refinishing automobles / painting in a enclosed garmat tier I paint spray booth (PSB01) /Drying-curing of paint in an Oven (OV01)

SUMMARY OF FACILITY WIDE EMISSION RATES FOR CRITERIA POLLUTANTS - POINT SOURCES

1.	2.	3.											
		PM_{10}		SO_2		NO_X		CO		VOC		Lead	
Emissions units	**Stack ID**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**	**lb/hr**	**T/yr**
Point Source(s)													
Garmat Tier 1 Paint Spray Booth	PSB01	0.07	0.07	0.00	0.00	0.09	0.10	0.04	0.04	4.29	4.47		
Garmat Tier 1 Oven	OV01	0.01	0.01	0.00	0.00	0.09	0.10	0.04	0.04	0.01	0.01		
name of the emissions unit3													
name of the emissions unit4													
name of the emissions unit5													
name of the emissions unit6													
name of the emissions unit7													
name of the emissions unit8													
name of the emissions unit9													
name of the emissions unit10													
name of the emissions unit11													
name of the emissions unit12													
name of the emissions unit13													
name of the emissions unit14													
name of the emissions unit15													
name of the emissions unit16													
name of the emissions unit17													
name of the emissions unit18													
name of the emissions unit19													
name of the emissions unit20													
name of the emissions unit21													
(insert more rows as needed)													
Total		0.08	0.08	0.00	0.00	0.19	0.19	0.08	0.08	4.30	4.47		

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03/26/07

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All information is required. If information is missing, the application will not be processed.

IDENTIFICATION	
1. Company Name	J.R. Leonard Inc. dba MAACO Collision Repair and Auto Painting
2. Facility Name (if different than #1)	MAACO Collision Repair and Auto Painting
3. Facility I.D. No.	
4. Brief Project Description:	Installation of a Garmat Tier 1 Paint Spray Booth and Oven

FACILITY INFORMATION	
5. Owned/operated by: (√ if applicable)	☐ Federal government ☐ County government ☐ State government ☐ City government
6. Primary Facility Permit Contact Person/Title	Jeff Leonard
7. Telephone Number and Email Address	208 385 9417 (home) jrsrleo@cableone.net
8. Alternate Facility Contact Person/Title	Ruth Leonard
9. Telephone Number and Email Address	rleona@regence.com
10. Address to which permit should be sent	5230 S. Willamette Place
11. City/State/Zip	Boise / ID / 83716
12. Equipment Location Address (if different than #10)	3236 E. Amity Road
13. City/State/Zip	Boise / ID / 83716
14. Is the Equipment Portable?	☐ Yes ☒ No
15. SIC Code(s) and NAISC Code	Primary SIC: 7532 Secondary SIC (if any): NAICS: 811121
16. Brief Business Description and Principal Product	Refinished Automobiles
17. Identify any adjacent or contiguous facility that this company owns and/or operates	

PERMIT APPLICATION TYPE	
18. Specify Reason for Application	☒ New Facility ☐ New Source at Existing Facility ☐ Unpermitted Existing Source ☐ Modify Existing Source: Permit No.:_____ Date Issued: _____ ☐ Permit Revision ☐ Required by Enforcement Action: Case No.:_____

CERTIFICATION		
IN ACCORDANCE WITH IDAPA 58.01.01.123 (RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.		
19. Responsible Official's Name/Title	Jeff Leonard	
20. RESPONSIBLE OFFICIAL SIGNATURE		Date: 3/14/08
21. ☒ Check here to indicate you would like to review a draft permit prior to final issuance.		

Emissions Unit - General **Form EU0**

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IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
J.R. Leonard, Inc.	MAACO Collision Repair and Auto Paintin	
Brief Project Description:	(2)997000Btu natural gas burners associated with a paint spray booth and oven	

EMISSIONS UNIT (PROCESS) IDENTIFICATION & DESCRIPTION

1. Emissions Unit (EU) Name:	PAINT SPRAY BOOTH AND OVEN (ONE BURNER IN EACH)
2. EU ID Number:	PSB01 AND OV01
3. EU Type:	☒ New Source ☐ Unpermitted Existing Source ☐ Modification to a Permitted Source -- Previous Permit #: Date Issued:
4. Manufacturer:	GARMAT
5. Model:	997000 BTU NATURAL GAS BURNERS
6. Maximum Capacity:	997000 BTU
7. Date of Construction:	April
8. Date of Modification (if any)	
9. Is this a Controlled Emission Unit?	☒ No ☐ Yes If Yes, complete the following section. If No, go to line 18.

EMISSIONS CONTROL EQUIPMENT

10. Control Equipment Name and ID:			
11. Date of Installation:		12. Date of Modification (if any):	
13. Manufacturer and Model Number:			
14. ID(s) of Emission Unit Controlled:			
15. Is operating schedule different than emission units(s) involved?	☐ Yes ☐ No		
16. Does the manufacturer guarantee the control efficiency of the control equipment?	☐ Yes ☐ No (If Yes, attach and label manufacturer guarantee)		

	Pollutant Controlled					
	PM	PM10	SO_2	NOx	VOC	CO
Control Efficiency						

17. If manufacturer's data is not available, attach a separate sheet of paper to provide the control equipment design specifications and performance data to support the above mentioned control efficiency.

EMISSION UNIT OPERATING SCHEDULE (hours/day, hours/year, or other)

18. Actual Operation	8 HRS/DAY, 5DAYS/WEEK, 52 WEEKS/YEAR
19. Maximum Operation	

REQUESTED LIMITS

20. Are you requesting any permit limits?	☐ Yes ☒ No (If Yes, check all that apply below)
☐ Operation Hour Limit(s):	
☐ Production Limit(s):	
☐ Material Usage Limit(s):	
☐ Limits Based on Stack Testing	Please attach all relevant stack testing summary reports
☐ Other:	
21. Rationale for Requesting the Limit(s):	

Emissions Units - Spray Paint Booth Information **Form EU3**

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IDENTIFICATION

Company Name:	Facility Name:	Facility ID No:
J.R. Leonard Inc.	MAACO Collision Repair and Auto Painting	

Brief Project Description: Installation of a Garmat Tier 1 Paint Spray Booth and Oven

BOOTH INFORMATION

1. Booth Type: ☒ New Booth ☐ Unpermitted Existing Booth
☐ Modification to a Permitted Booth, Permit #: , Date Issued:

2. Construction Date:

SPRAY GUN DESCRIPTION AND SPECIFICATIONS

Gun No.	3. Manufacturer	4. Model	5. Type	6. Transfer Eff. %	7. Rated Capacity (gal/hr)
1	Devilbiss	GFG-670	High Efficiency Gravity Feed	96.5	1.125
2					
3					
4					

Number of guns to be used simultaneously:

SPRAY MATERIAL DESCRIPTION AND SPECIFICATIONS

8. Type of Spray Material Used	9. Type of Material Coated	10. Max. Usage (gal/day)	11. Solid TAP/HAP Content (lb/gal)	12. VOC TAP/HAP Content (lb/gal)	13. MSDS Attached? (Y/N)
Dupont Paint	Vehicles	9	See attached	See attached	Y

REQUEST FOR PERMIT LIMITATIONS

14. Are you requesting any permit limits? ☒ No ☐ Yes. If Yes, check all that apply below and fill in requested limit(s)

☐ Operation Hour Limits:	☐ Production Limits:
☐ Material Usage Limits:	☐ Other:

15. Rationale for Requesting the Limit(s):

EMISSION CONTROL DEVICE (FILTER[b]) DESCRIPTION AND SPECIFICATIONS

Stack Served	16. Filter Manufacturer	17. Model	18. PM Control Efficiency(%)[a]	19. Dimension (Total Area, Thickness and Number of Filters)
Stack 1	Superior Glass Fibers	TYB25-300-22-c-4-00	96.5	20 x 20 x 2.5
Stack 2				
Stack 3				
Stack 4				

Notes: a. Provide either stack test data or vendor's documentation to support the control efficiency specified above.
b. Fill out and submit appropriate control equipment form(s) if this booth has a control device(s) other than a filter system.

BOOTH OPERATING SCHEDULE (indicate hours/day, hours/year, or other)

20. Actual Operation: 8 hr/day 5 days/wk 52 wks/yr	21. Maximum Operation:

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Company Name:	J.R. Leonard, Inc.
Facility Name:	MAACO Collision Repair and Auto Painting
Facility ID No.:	
Brief Project Description:	Installation of a Garmat Tier 1 Paint Spray Booth and Oven for refinishing automobiles

BUILDING AND STRUCTURE INFORMATION

1.	2.	3.	4.	5.	6.	7.
Building ID Number	**Length (ft)**	**Width (ft)**	**Base Elevation (m)**	**Building Height (m)**	**Number of Tiers**	**Description/Comments**
MAACO	60.00	120.00	850.00	7.10	1	See attached 300 ft. Radius Plot
Building 2 ID						
Building 3 ID						
(insert more rows as needed)						

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03/26/07

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IDENTIFICATION		
Company Name: J.R. Leonard, Inc.	Facility Name: MAACO Collision Repair and Auto Painting	Facility ID No:
Brief Project Description:	Installation of a Garmat Tier 1 Paint Spray Booth and Oven/ Refinishing Automobiles	

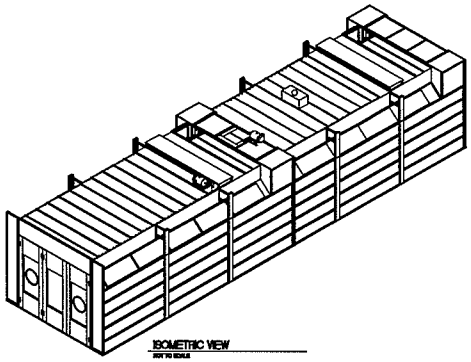
APPLICABILITY DETERMINATION		
1. Will this project be subject to 1990 CAA Section 112(g)? (Case-by-Case MACT)	☒ NO	☐ YES* * If YES, applicant must submit an application for a case-by-case MACT determination [IAC 567 22-1(3)"b" (8)]
2. Will this project be subject to a New Source Performance Standard? (40 CFR part 60)	☒ NO	☐ YES* *If YES, please identify sub-part: _____
3. Will this project be subject to a MACT (Maximum Achievable Control Technology) regulation? (40 CFR part 63) THIS ONLY APPLIES IF THE PROJECT EMITS A HAZARDOUS AIR POLLUTANT	☒ NO	☐ YES* *If YES, please identify sub-part: _____
4. Will this project be subject to a NESHAP (National Emission Standards for Hazardous Air Pollutants) regulation? (40 CFR part 61)	☒ NO	☐ YES* *If YES, please identify sub-part: _____
5. Will this project be subject to PSD (Prevention of Significant Deterioration)? (40 CFR section 52.21)	☒ NO	☐ YES
6. Was netting done for this project to avoid PSD?	☒ NO	☐ YES* *If YES, please attach netting calculations

IF YOU ARE UNSURE HOW TO ANSWER ANY OF THESE QUESTIONS, CALL THE AIR PERMIT HOTLINE AT 1-877-5PERMIT

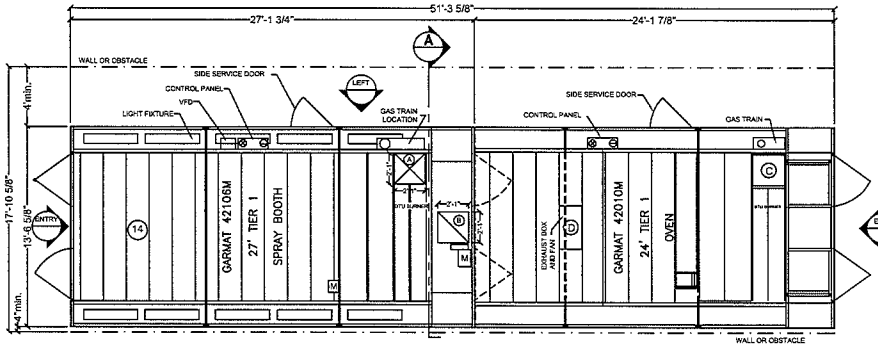
Drawing and Specifications

PRESSURIZED SEMI-DOWNDRAFT SPRAY BOOTH GAS FIRED OVEN

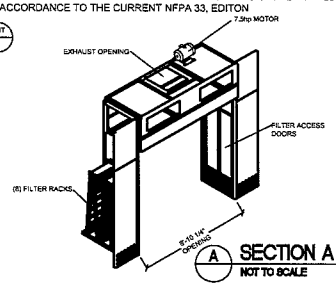
Manufacture	Type		Model #	Dimensions
GARMAT TIER 1 BOOTH or Equivalent	Pressurized Semi-Down Draft Spray Booth Exhaust: 25" x 25" 7.5 HP, 3 Phase. 10,000 CFM's. Exhaust Fan Make: NICONTRA, Model # 632N49W. Exhaust Fan Motor: Make & #, BALDOR, M3710T Air Intake Unit: 25" x 25" 7.5 HP, 3 Phase, 10,000 CFMs BTUs: 997,000 NATURAL GAS			13' - 6 5/8" x 27' 1 3/4"
GARMAT TIER 1 OVEN or Equivalent	Recirculation Gas Fired Oven. Purge Exhaust: 12" x 12" 1/3 HP, 3 Phase, 8,000 CFMs Exhaust Fan & Motor Make: GRAINGER, Model # 17F921 Intake: 12" x 12" Intake Duct w/ 5 HP, 3 Phase, 8,000 CFMs BTUs: 997,000 Natural Gas			13' - 6 5/8" x 24' 1 7/8"
	Overall Spray Booth & Oven Dimensions			13' 7" x 51' 3 5/8"
Exhaust Filter Info	**Spray Booth** - Glass Fiber Media, 96.5% efficiency	FILTRAIR	PA - 21	8) 59.5" x 24"
Intake Filter Info	**Spray Booth** - Thermally bonded & impregnated in full depth to prevent release of fibers & migration of particles larger than 5 microns. 99.5% efficiency	FILTRAIR	CC 600 G	8) 38.5" x 61.42"
	Oven - Thermally bonded & impregnated in full depth to prevent release of fibers & migration of particles larger than 5 microns. 99.5% efficiency	FILTRAIR	CC 600 G	8) 38.5" x 61.42"
Hercules	Gun Washer		G200	
DeVilbiss	HIGH EFFICIENCY GRAVITY FEED		GFG-670 Plus Gravity Gun	



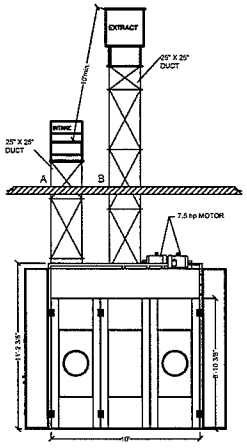
ISOMETRIC VIEW
NOT TO SCALE



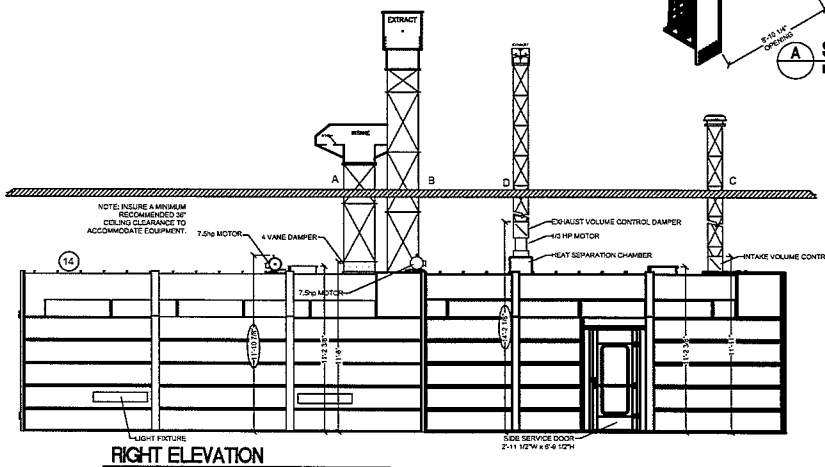
PLAN VIEW



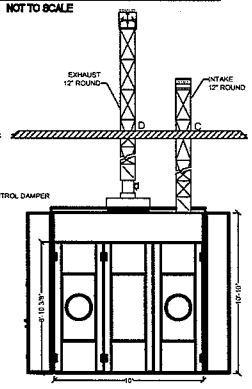
A SECTION A
NOT TO SCALE



ENTRY ELEVATION
NOT TO SCALE



RIGHT ELEVATION
NOT TO SCALE



EXIT ELEVATION
NOT TO SCALE

THE GARMAT 42106 27' TIER 1 SPRAY BOOTH WILL REQUIRE:

1. AT ELECTRICAL DROP THE LIGHTING (14, 4-TUBE INTERIOR ACCESSIBLE LIGHT FIXTURES) WILL REQUIRE TWO 120v/20amp SINGLE PHASE CIRCUITS STANDARD, OR TWO 277v/10 amp, SINGLE PHASE CIRCUITS OPTIONAL. UPGRADED LIGHTING WILL REQUIRE AN ADDITIONAL LIGHT CIRCUIT.

2. AT ELECTRICAL DROP THE TWO STANDARD 7.5hp MOTORS WILL REQUIRE 208v/60amp, 240v/60amp, OR 480v/30amp, THREE PHASE SERVICE.

3. ALL ELECTRICAL CONNECTIONS SHOULD BE IN ACCORDANCE TO THE CURRENT NEC (NATIONAL ELECTRICAL CODES). VERIFY COMPLIANCE OF LOCAL CODES WITHIN THE JURISDICTION OF THE INSTALLATION SITE.

4. ALLOW ADEQUATE CLEARANCE OF 3' MINIMUM FROM ALL SPARKING ELECTRICAL COMPONENTS, TO CONFORM TO THE CURRENT NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) 33, EDITION.

5. REMOTE CONTROL PANEL TO BE PLACED WITHIN 20' OF MAIN CONTROL PANEL, AND NOT TO BE WITHIN 3' OF A BOOTH OPENING, IN COMPLIANCE WITH THE CURRENT NEC EDITION.

6. SUPPLY 100 PSI COMPRESSED AIR TO MAIN GARMAT CONTROL PANEL, INCLUDING SHUT OFF VALVE (NOT SUPPLIED). CLEAN AND DRY AIR IS REQUIRED BEFORE THE SPRAY BOOTH CONTROL PANEL. A QUALITY AIRLINE DRYER (NOT SUPPLIED) CAPABLE OF A CONSTANT 17 CMF SHALL BE INSTALLED PRIOR TO MAIN CONTROL PANEL. AN ADEQUATE PRESSURE REGULATOR (NOT SUPPLIED) CAPABLE OF A CONSTANT 17 CMF AT 60 PSI IS RECOMMENDED PRIOR TO ENTERING THE SPRAY BOOTH CABIN (DO NOT MOUNT REGULATORS OR AIR FILTERS INSIDE THE BOOTH CABIN).

7. BURNER SIZE: 997,000 btu

8. SUPPLY GAS PIPING TO GAS TRAIN, INCLUDING UNION AND DRIP LEG (1 1/4" CONNECTION AT GAS TRAIN INLET). (RECOMMENDED DEDICATED LINE FROM METER WHEN POSSIBLE). GAS PRESSURE MUST BE A MINIMUM OF 1/4" psi (7" w.c.) AND A MAXIMUM OF 3/4" psi (21" w.c.). CAPACITY TO PROVIDE FOR 997,000 BTU BURNER. VENTING OF REGULATOR AND VALVES ON GAS TRAIN TO THE EXTERIOR OF BUILDING - MINIMUM OF 10' FROM INTAKE.

9. LEVEL FLOOR +/- 1/8"

10. ALLOW ADEQUATE SPACE AROUND THE BOOTH IN ACCORDANCE TO THE CURRENT NFPA 33, EDITION.

11. MEANS OF EGRESS TO CONFORM TO THE CURRENT NFPA 101, EDITION.

12. A MINIMUM CLEARANCE OF 20' IS REQUIRED FROM FRONT OF THE BOOTH TO ANY WALL OR OBSTACLE FOR OPTIMUM TURNING RADIUS.

13. HEIGHT OF BOOTH CABIN IS 11'-2 3/8". HIGHEST POINT IS 11'-10 7/8".

14. PROVIDE FOR UNOBSTRUCTED EXPLOSION RELIEF IN ACCORDANCE TO THE CURRENT NFPA 86, ED EDITION.

15. AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BE PROVIDED BY OTHERS. IN ACCORDANCE TO THE CURRENT NFPA 33, EDITON

OVEN REQUIREMENTS:

1. AT ELECTRICAL DROP LIGHTING (1, 4-TUBE INTERIOR ACCESSIBLE LIGHT FIXTURE) WILL REQUIRE ONE 120/277v, 20/10amp, SINGLE PHASE CIRCUITS. 110v STANDARD, 277v OPTIONAL. UPGRADED LIGHTING WILL REQUIRE AN ADDITIONAL LIGHT CIRCUIT.

2. AT THE ELECTRICAL DROP EACH MOTOR WILL REQUIRE 208/240/480v(575 OUTSIDE OF USA), 30/30/10amp, THREE PHASE SERVICE FOR ONE 1/3hp MOTOR AND ONE 5hp MOTOR.

3. ALL ELECTRICAL CONNECTIONS SHOULD BE IN ACCORDANCE TO THE CURRENT NEC (NATIONAL ELECTRICAL CODES). VERIFY COMPLIANCE OF LOCAL CODES WITHIN THE JURISDICTION OF THE INSTALLATION SITE.

4. ALLOW ADEQUATE CLEARANCE OF 3' MINIMUM FROM ALL SPARKING ELECTRICAL COMPONENTS, TO CONFORM TO THE CURRENT NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) 33, EDITIONED .

5. REMOTE CONTROL PANEL TO BE PLACED WITHIN 20' OF MAIN ELECTRICAL PANEL, AND NOT TO BE WITHIN 3' OF A BOOTH OPENING, IN COMPLIANCE WITH THE CURRENT NEC EDITION.

6. BURNER SIZE: 997,000 btu

7. SUPPLY GAS PIPING TO GAS TRAIN, INCLUDING UNION AND DRIP LEG (1 1/4" CONNECTION AT GAS TRAIN INLET). (RECOMMENDED DEDICATED LINE FROM METER WHEN POSSIBLE). GAS PRESSURE MUST BE A MINIMUM OF 1/4" PSI (7" w.c.) AND A MAXIMUM OF 3/4" PSI (21" w.c.). CAPACITY TO PROVIDE FOR 997,000 BTU BURNER. VENTING OF REGULATOR AND VALVES ON GAS TRAIN TO THE EXTERIOR OF BUILDING - MINIMUM OF 10' FROM INTAKE.

8. LEVEL FLOOR +/- 1/8"

9. ALLOW ADEQUATE SPACE AROUND THE BOOTH IN ACCORDANCE TO THE CURRENT NFPA 33, EDITION.

10. MEANS OF EGRESS TO CONFORM TO THE CURRENT NFPA 101, EDITION.

11. A MINIMUM CLEARANCE OF 20' IS REQUIRED FROM FRONT OF THE BOOTH TO ANY WALL OR OBSTACLE FOR OPTIMUM TURNING RADIUS.

12. HEIGHT OF OVEN CABIN IS 11'-2 3/8". HIGHEST POINT 14'-2 1/8".

LEGEND

- ⊖ ELECTRICAL DROP
- M MOTOR LOCATION
- ⊗ AIR INLET
- ○ GAS TRAIN INLET
- Ⓐ 25X25 INTAKE DUCT BOOTH
- Ⓑ 25X25 EXHAUST DUCT BOOTH
- Ⓒ 12" INTAKE DUCT OVEN
- Ⓓ 12" EXHAUST DUCT OVEN

SPRAY BOOTH:

FILTERS: Booth Ceiling, Filtrair CC600 G media, 99.9% efficiency, thermally bonded and impregnated in full depth to prevent release of fibers and migration of particles larger than 5 microns.

Booth Exhaust, Filtrair Paint Arestor, glass fiber media, 96.5% efficiency, 4 self-sealing racks located in each of the two exhaust towers.

FANS: Booth Intake: 1 Dual 355 Centrifugal Fan Assembly with 7.5 HP Motor. Booth Exhaust: 1 Single 450 Spark Arresting Reverse Incline Fan with 7.5 HP Motor.

CFM: 10,000

OVEN:

FILTERS: Oven Ceiling, Filtrair CC600 G media, 99.9% efficiency, thermally bonded and impregnated in full depth to prevent release of fibers and migration of particles larger than 5 microns.

FANS: Oven Intake: 1 Dual 315 Centrifugal Fan Assembly with a 5 HP Motor. Oven Exhaust: 1 Single Spark Arresting 12" Tube Axle Fan with a 1/3HP Motor.

CFM: 8,000

LIGHT FIXTURES: Comply with the requirements of the Standard(s) for Electric Lighting Fixtures for use in Hazardous (Classified) Locations (UL-844) and are identified with the ETL Listed Mark.

CAROL NELSON
Drawn by:
Approved by:
Date

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This drawing is not to be reproduced, either in whole or in part without the written consent of Garmat USA, INC.

FAX (303)781-2683
PHONE (303)781-6602
1401 W. STANFORD AVE.
ENGLEWOOD, CO 80110

PRELIMINARY DRAWING ONLY
NOT APPROVED FOR CONSTRUCTION

EQUIPMENT PLAN VIEW, ISOMETRIC ELEVATIONS AND SPECIFICATIONS

COMPUTER GENERATED DRAWING FOR:
MAACO PAINT CENTER

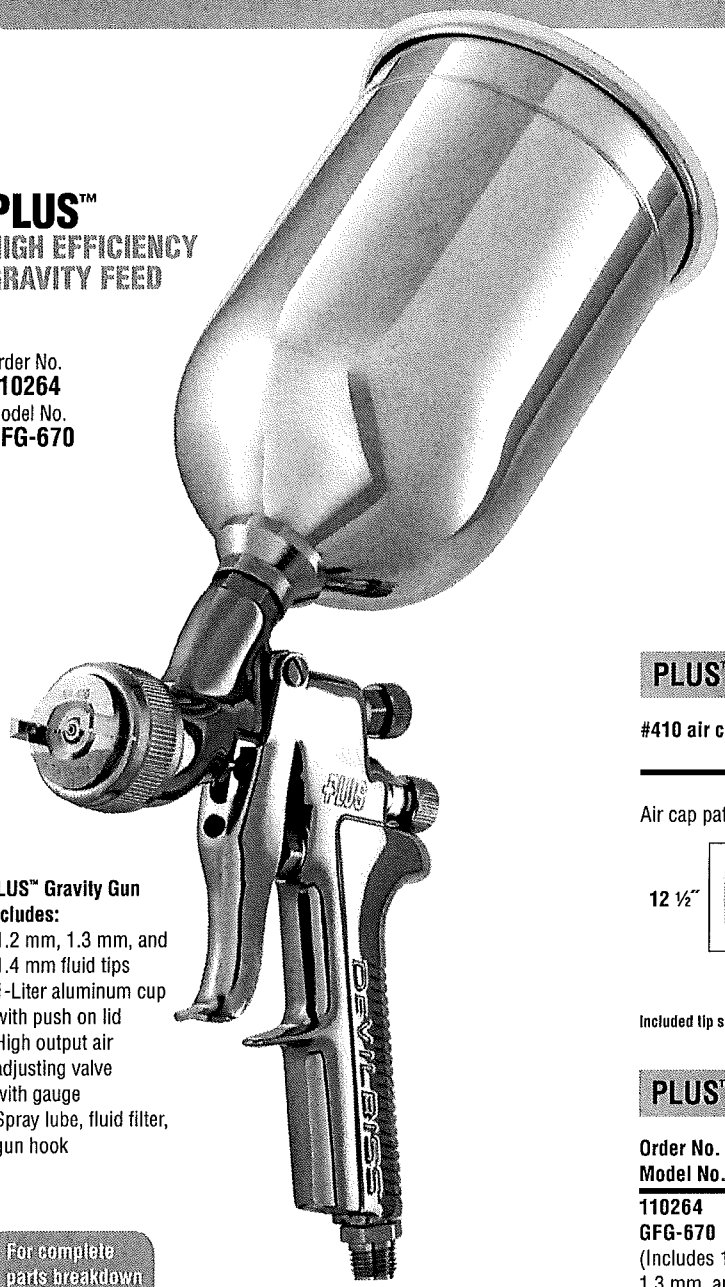
STATUS – PRELIMINARY
REVISION – 1
SHEET SIZE – D

DATE 6/1/07
SCALE 1/4"=1'
SHEET NO. A

DRAWING NO.
42106Mx27_42010Mx24LA1

PLUS™
HIGH EFFICIENCY GRAVITY FEED

Order No.
110264
Model No.
GFG-670



Experience the Power of PLUS...

- **Powerful atomization** – twice the energy available in HVLP guns
- **Powerful productivity** – super fast fluid flow for high speed painting
- **Powerful efficiency** – equal to or better than HVLP transfer efficiency

PLUS™ Gravity Gun Includes:
- 1.2 mm, 1.3 mm, and 1.4 mm fluid tips
- 1-Liter aluminum cup with push on lid
- High output air adjusting valve with gauge
- Spray lube, fluid filter, gun hook

For complete parts breakdown please see page 37

PLUS™ Gravity Feed High Efficiency Air Cap

#410 air cap	Primers, base coats, clearcoats, single stage and low VOC	
Air cap pattern	30-40 PSI	9-11 CFM
12 ½″	Gravity Tips:	1.0 mm, **1.2 mm, 1.3 mm, 1.4 mm,** 1.6 mm, 1.8 mm
	Air Cap Order No.	**192174**
	Air Cap Model No.	**AV-440-410**

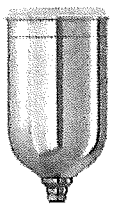
Included tip sizes shown in bold

PLUS™ Gravity Feed

Order No. Model No.	Fluid Tip (mm)	Inlet Air Pressure	Applications
110264	1.2 & 1.3	25-35 PSI	Base coats
GFG-670		30-40 PSI	High solids clearcoats
(Includes 1.2 mm,		30-40 PSI	Single stages
1.3 mm, and		25-30 PSI	Waterbornes
1.4 mm fluid tips)			
	1.4	30-40 PSI	Low solids clearcoats
		30-40 PSI	Single stages

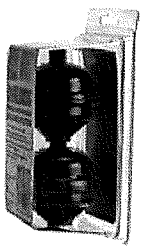
ACCESSORIES

120175
GFC-502
1-Liter aluminum gravity cup



802187
DGI-501-PSI
Digital pressure gauge

130095
HAF-507-K2
Whirlwind filter



192246
BXX-1250
Single gun case

220052
HA-5867
⅜″ HVLP air hose assy. (35′)

AIR FILTER TESTING LABORATORIES, INC.

4632 Old LaGrange Road Crestwood, Kentucky 40014

REPORT NO. 6267 TEST NO. 1

PAINT ARRESTOR FILTER PERFORMANCE TEST
REMOVAL EFFICIENCY AND PAINT HOLDING CAPACITY

DEVICE TESTED

TEST REQUESTED BY	SUPERIOR GLASS FIBERS, INC.
MANUFACTURER	SUPERIOR GLASS FIBERS, INC.
PRODUCT NAME	GLASS FIBER PAINT ARRESTOR PAD
HOW LABORATORY PROCURED TEST SAMPLE	FURNISHED BY MANUFACTURER
MODEL NO.	TYB 25-300-22-C-4-00
DIMENSIONS	20 IN. H 20 IN. W 2 1/2 IN. D
PRODUCT DESCRIPTION:	GLASS FIBER PAD – 22 GRAM YB DRY PA

TEST CONDITIONS

AIRFLOW RATE	150	FPM
PAINT APPLICATION RATE	1	QT/40 MIN
AIR TEMPERATURE	75-85	DEGREE F
DESCRIPTION OF PAINT USED	AIR DRY SYNTHETIC ENAMEL	

TEST RESULTS

INITIAL RESISTANCE CLEAN PAINT ARRESTOR FILTER				0.03	IN. W.G.
WEIGHT GAIN PAINT ARRESTOR FILTER				1708.4	GRAMS
FINAL ARRESTANCE FILTERS WEIGHT GAIN				55.93	GRAMS
TOTAL WEIGHT PAINT FED (DRY BASES)				1764.33	GRAMS
PERFORMANCE TO CHANGE OUT RESISTANCE				1.00	IN. W.G.
AVERAGE PAINT OVER SPRAY REMOVAL EFFICIENCY				96.5	%
PAINT HOLDING CAPACITY	1340	GRAMS	OR	2.95	POUNDS

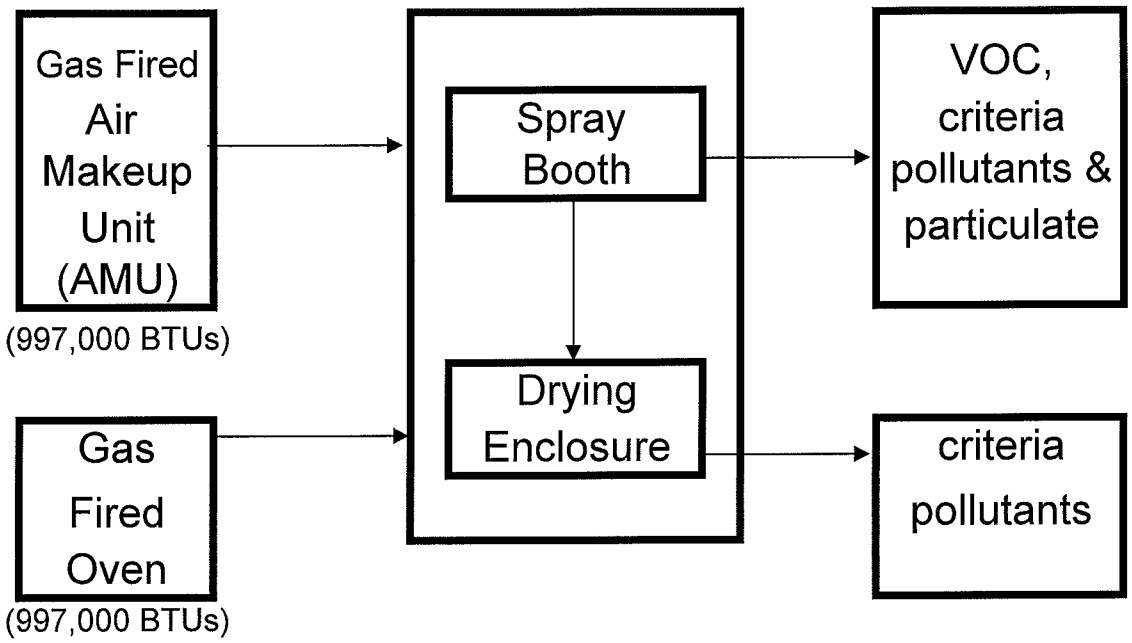
DATES OF TEST	8-16-1991
TEST SUPERVISOR	W.T.S.
ENGINEERING APPROVAL	David J. Murphy Jr.

STATE OF KENTUCKY
DAVID J. MURPHY JR.
6035
REGISTERED PROFESSIONAL ENGINEER

Process Flow Diagram

MAACO AUTO PAINTING

Process Flow Diagram



Tables 1 through 7 Emission Calculations

Table 1. Topcoat Analysis

Coating	Parts	Product	Subproduct	Product #	Weight % Solids	Weight % Vol.	Density	LE VOC
			Topcoat (1/3)	430-52	34.84	65.16	7.96	5.2
			Binder (2/3)	435-90	41.51	58.49	7.73	4.1
	8	Ful-Base Enamel			39.29	60.71	7.81	4.5
	1	Catalyst Plus		483-08	40.0	60.0	8.16	4.9
	2	Reducer		441-22	0	100	6.91	6.9
Ful-Base Enamel					**32.2**	**67.8**	**7.68**	**4.9**
			Topcoat (1/3)	430-52	34.84	65.16	7.96	5.2
			Binder (2/3)	435-94	40.4	59.6	7.98	4.8
	8	Ful-Cryl II			38.6	61.4	7.97	4.9
	1	Catalyst		483-11	75	25	9.01	2.2
	2	Reducer		441-22	0	100	6.91	6.9
Ful-Cryl II Acrylic Enamel					**34.9**	**65.1**	**7.87**	**5.0**
			Toner (1/3)	430-52	34.84	65.2	7.96	5.2
			Binder (2/3)	435-91	42.8	57.2	8.11	4.6
	8	Ful-Base System Toner			40.1	59.9	8.06	4.8
	1	Catalyst		483-15	90	10	9.35	0.9
	2	Reducer		441-22	0	100	6.91	6.9
Ful-Thane 2K Urethane					**37.4**	**62.6**	**7.97**	**4.8**
	1		Basecolor "K" (see Table 2)		43.9	56.1	7.99	5.5
	1		Basemaker	7160S	0.2	99.8	6.61	6.6
	1	Basecoat			22.0	78.0	7.3	6.0
	4		Clear	496-00	35.9	64.1	7.98	4.2
	1		Catalyst	483-79	44.1	55.9	8.36	4.7
	2	Clearcoat			37.5	62.5	8.06	4.3
Chromabase Basecoat/Clearcoat					**39.6**	**60.4**	**7.80**	**4.9**

Table 2. Chromabase Basecoat Details

Sample color: Gray Blue-Effect
K8620K

DuPont Color	Mix (g)	density (lb/gal)	Mix (gal)	volume percent	VOC (lb/gal)	TOTAL VOC (lb/gal)	Weight % solids		TOTAL Weight % Solids
814J	63.1	9.15	0.015204	0.041128	4.7	0.193301	48.39	0.178937	8.658773
806J	120.2	8.25	0.032121	0.086892	4.3	0.373634	47.7	0.176386	8.413601
811J	151.1	9.25	0.036013	0.097421	4.9	0.477361	47.18	0.174463	8.231159
827J	174.1	7.94	0.048341	0.130769	5.6	0.732309	28.99	0.1072	3.107718
820J	189.9	7.96	0.052595	0.142279	5.2	0.739849	34.93	0.129165	4.511722
802J	198.6	8.52	0.05139	0.139017	4.0	0.556067	53.57	0.198092	10.61178
150K	443.1	7.29	0.134002	0.362495	6.6	2.392467	9.67	0.035758	0.345779
	1340.1		0.369665			**5.464988**	270.43		**43.88054**

TOTAL DENSITY 7.992176 lb/gal

Table 3. VOC Emissions

Product Type	Amount Applied per hour (gal)	LE VOC content (# VOC/gal coating)	Actual hours per year	Potential hours per year	Actual Emissions (tons/year)	Potential Emissions (tons/year)
Topcoats & Metallic Topcoats						
Ful-Base Enamel	0.95	4.9	312	1314	0.73	3.06
Ful-cryl II Topcoat	0.95	5.0	312	1314	0.74	3.12
Ful-thane 2K urethane	0.95	4.8	416	1752	0.95	3.99
Chromabase Basecoat/Clearcoat	0.25	4.9	1040	4380	0.64	2.68
Sub-total			2080	8760		
Pretreatment Wash Primer						
1:etch primer/1: activator	0.075	6.2	1040	4380	0.24	1.02
Primer Sealer						
422-23 Ful-Seal	0.25	4.6	1040	4380	0.60	2.52
Sub-total			2080	8760		
Primer/Primer Surfacer						
2K Urethane Primer	0.075	4.6	2080	8760	0.36	1.51
Wash Thinnner (cleanup)	0.02875	6.9	2080	8760	0.21	0.87
				Total:	**4.46**	**18.77**

Note: Combining the total topcoat applications together results in an actual hourly operation of 2080 hours and a potential hourly operation of 8760 hours. Combining the pretreatment wash primer and primer sealer applications results in an actual hourly operation of 2080 hours and a potential hourly operation of 8760 hours.

Table 4. HAP Analysis

Coating/Regulated Toxic	Parts	Product	Subproduct	Product #	Amount Applied Per Hour (gals)	% BW in product	Density (lb/gal)	VOC (lb/gal)	actual (hrs/day)	actual emissions (lb/day)
Topcoats										
			Topcoat (1/3)	430-52			7.96	5.2		
			Binder (2/3)	435-90			7.73	4.1		
	8	Ful-Base Enamel					7.81	4.47		
	1	Catalyst Plus		483-08			8.16	4.9		
	2	Reducer		441-22			6.91	6.9		
Ful-Base Topcoat					**0.950**		**7.68**	**4.9**	**1.20**	
ethyl benzene						1.7212%				**0.15**
toluene						2.7273%				**0.24**
ethlene glycol monobutyl ether acetate						1.4545%				**0.13**
1,2,4 trimethly benzene						0.6730%				**0.06**
isophorone diisocyanate						0.0909%				**0.01**
napthalene						0.0970%				**0.01**
xylene						6.5455%				**0.57**
			Topcoat (1/3)	430-52			7.96	5.2		
			Binder (2/3)	435-94			7.98	4.8		
	8	Ful-Cryl II					7.97	4.9		
	1	Catalyst		483-11			9.01	2.2		
	2	Reducer		441-22			6.91	6.9		
Ful-Cryl II Acrylic Enamel					**0.950**		**7.87**	**5.0**	**1.2**	
ethyl benzene						2.1455%				**0.19**
toluene						4.1540%				**0.37**
xylene						8.4848%				**0.76**
ethlene glycol monobutyl ether acetate						2.3341%				**0.21**
1,6-hexamethylene diisocyanate						0.0091%				**0.00**
1,2,4 trimethyl benzene						0.7273%				**0.07**
cumene						0.0000%				**0.00**
napthalene						0.0000%				**0.00**
methyl isobutyl ketone						0.5668%				**0.05**
			Toner (1/3)	430-52			7.96	5.2		
			Binder (2/3)	435-91			8.11	4.6		
	8	Ful-Base System Toner					8.06	4.80		
	1	Catalyst		483-15			9.35	0.9		
	2	Reducer		441-22			6.91	6.9		
Ful-Thane 2K Urethane					**0.950**		**7.97**	**4.83**	**1.60**	
ethyl benzene						1.9152%				**0.23**
toluene						4.0785%				**0.49**
xylene						7.5242%				**0.91**
1,6-hexamethylene diisocyanate						0.0182%				**0.002**
1,2,4-trimethyl benzene						0.6955%				**0.06**
cumene						0.0091%				**0.00**
napthalene						0.0000%				**0.00**
methyl isobutyl ketone						0.7413%				**0.09**
	0.041128		chromabase tint	814J			9.15	4.7		
	0.086892		chromabase tint	806J			8.25	4.3		
	0.097421		chromabase tint	811J			9.25	4.9		
	0.130769		chromabase tint	827J			7.94	5.6		

	0.142279		chromabase tint	820J			7.96	5.2		
	0.139017		chromabase tint	802J			8.58	4.0		
	0.362495		balancer	150K			7.29	6.6		
			K8620K				**8.00**	**5.46**		
	1		Basemaker	7160S			6.61	6.6		
	1	Chromabase Basecoat					**7.31**	**6.03**		
	4		Clear	496-00			7.98	4.2		
	1		Catalyst	483-79			8.36	4.7		
	2	Clearcoat					**8.06**	**4.30**		
Chromabase Basecoat/Clearcoat					**0.250**		**7.81**	**4.88**	**4.00**	
ethyl benzene						4.4089%				**0.34**
xylene						16.1563%				**1.26**
toluene						5.2667%				**0.41**
1,2,4 tri methyl benzene						2.0137%				**0.16**

Pretreatment Wash Primer

	1	Etch Primer		491-17			7.90	5.70		
	1	Activator		441-43			6.86	6.70		
Etch Primer					**0.075**		**7.38**	**6.20**	**4**	
n-butyl alcohol						44.5%				**0.99**
methyl isobutyl ketone						6.0%				**0.13**

Prime Sealer

422-23 Ful-Seal Select				422-23	**0.25**		**8.24**	**4.6**	**4**	
toluene						3.0%				**0.25**
ethyl benzene						0.7%				**0.06**
napthalene						0.1%				**0.01**
xylene						2.7%				**0.22**

Primer Surface

	4	SelectPrime 2K Primer		421-17			11.88	4.4		
	1	SelectPrime Activator		483-87			8.01	5.3		
2K Urethane Primer					**0.075**		**11.106**	**4.58**	**8.00**	
ethyl benzene						5.0%				**0.332**
toluene						3.0%				**0.20**
xylene						20.0%				**1.33**

INDIVIDUAL HAP SUBTOTAL

	CAS	(lb/day)	(tpy)
toluene	108-88-3	1.96	0.26
xylene	1330-20-7	5.06	0.66
methyl isobutyl ketone	108-10-1	0.28	0.037
ethyl benzene	100-41-4	1.31	0.170
1,6-hexamethylene diisocyanate	822-06-0	0.0030	0.0004
1,2,4-Trimethylbenzene	95-63-6	0.34	0.0445
cumene	98-82-8	0.01	0.0011
n-butyl alcohol	71-36-3	0.9852	0.1281
napthalene	91-20-3	0.0082	0.0011
TOTAL HAP			**1.3**

Table 5. Particulate Emissions

MAACO ENTERPRISES

Particulate Emission Calculations

Without control

A	B	C	D	E	F=(B*C*D*E)
Product Type	Amount applied per week (gal)	Percent Overspray	solids content (# solids/gal coating)	Weeks per year	Emissions (lbs/year)
Pretreatment Wash Primer	2	35%	2.06	52	75
Primer/Primer Surface	3	35%	5.79	52	316
Prime Sealer	10	35%	5.11	52	930
Topcoat (as applied)	45	35%	3.04	52	2490

TOTAL:	**3810.67**

With control

Pretreatment Wash Primer	2.62 lbs/yr
Primer/Primer Surface	11.06 lbs/yr
Prime Sealer	32.56 lbs/yr
Topcoat (as applied)	87.14 lbs/yr

TOTAL:	**133.37 lbs/yr**

karen/maaco/particul

Table 6. Air Makeup Unit Emissions

EPA's AP-42 for Natural Gas

Drying Oven	pollutant	AP-42 factor lb/10^6 scf	Unit scfh	lbs/hr
	Partic	7.6	997	0.0076
	NOx	94	997	0.0937
	CO	40	997	0.0399
	SO2	0.6	997	0.0006
	VOC	5.5	997	0.0055

Spray Booth	pollutant	AP-42 factor lb/10^6 scf	Unit scfh	lbs/hr
	Partic	7.6	997	0.0076
	NOx	94	997	0.0937
	CO	40	997	0.0399
	SO2	0.6	997	0.0006
	VOC	5.5	997	0.0055

	Total Burner Emissions
Partic	0.015154
NOx	0.187436
CO	0.07976
SO2	0.001196
VOC	0.010967

Table 7.

Garmat Tier 1 Booth and Oven Emissions
Criteria Pollutants
Emission Factors for Natural Gas from EPA's AP-42

	Burners (2) 997000 Btu (lbs/hr)	Paint Spray Booth Potential Emissions (lbs/hr)	Paint Spray Booth Actual Emissions 96.5 % Filter Efficiency (lbs/hr)
Particulate	0.0152	1.83	0.0641
NOx	0.1874	0	0
SOx	0.0012	0	0
CO	0.0798	0	0
VOC	0.011	4.3	4.3

	Total Potential Emissions			Total Actual Emissions		
	(lbs/hr)	(tons/yr)	(lbs/day)	(lbs/hr)	(tons/yr)	(lbs/day)
Particulate	**1.8**	**8.1**	**44.3**	**0.08**	**0.08**	**0.63**
NOx	**0.19**	**0.82**	**4.50**	**0.19**	**0.19**	**1.50**
SOx	**0.0012**	**0.005**	**0.0288**	**0.0012**	**0.0012**	**0.0096**
CO	**0.080**	**0.350**	**1.92**	**0.080**	**0.08**	**0.64**
VOC	**4.3**	**18.9**	**103.5**	**4.3**	**4.46**	**34.32**

Plot Plan

MSDS

DUPONT

NEW OPENING PAINT ORDER
NASON FUL-BASE SYSTEM
NATIONAL RULE

DESCRIPTION	5GL	GL	QT	PT	1/2PT	UNIT	QTY	CLASSIFICATION
430-01 HS BLACK		2				GL	2	IB
430-02 CARBON BLACK		2				GL	2	IB
430-03 HS WHITE		2				GL	2	IB
430-04 WHITE		2				GL	2	IB
430-05 TRANSPARENT RED			2			QT	2	IB
430-06 LS TRANSPARENT RED			2			QT	2	IB
430-07 OCHRE			2			QT	2	IB
430-08 RED OXIDE			2			QT	2	IB
430-09 TRANSPARENT YELLOW			2			QT	2	IB
430-10 MAGENTA			1			GL	1	IB
430-11 GREEN			2			QT	2	IB
430-13 NON FLOP BLUE			2			QT	2	IB
430-14 VIOLET			2			QT	2	IB
430-15 PERMANENT BLUE		2				GL	2	IB
430-16 YELLOW GREEN			2			QT	2	IB
430-17 YELLOW			2			QT	2	IB
430-18 ORANGE		2				GL	2	IB
430-19 LEMON YELLOW			2			QT	2	IB
430-20 INDO YELLOW			2			QT	2	IB
430-21 RED SHADE BLUE			2			QT	2	IB
430-22 PERRINDO RED			2			QT	2	IB
430-23 PERRINDO MAROON			2			QT	2	IB
430-24 QUINDO RED			2			QT	2	IB
430-25 BRIGHT RED		1				GL	1	IB
430-26 PAL YELLOW			2			QT	2	IB
430-27 BRIGHT YELLOW			2			QT	2	IB
430-28 BRIGHT WHITE PEARL			2			QT	2	IB
430-29 RUSSET PEARL			2			QT	2	IB
430-30 FINE ALUMINUM		2				GL	2	IB
430-31 MEDIUM ALUMINUM		2				GL	2	IB
430-32 BRIGHT MEDIUM ALUMINUM		2				GL	2	IB
430-33 SPARKLE ALUMINUM		2				GL	2	IB
430-34 FINE HI-PAK ALUMINUM		2				GL	2	IB
430-35 MEDIUM HI-PAK ALUMINUM		2				GL	2	IB
430-36 RED ORANGE			2			QT	2	IB
430-37 PHTHALO BLUE		2				GL	2	IB
430-38 INDO BLUE			2			QT	2	IB
430-39 LS GREEN			2			QT	2	IB
430-40 MIXING CLEAR		2				GL	2	IB
430-41 QUINDO MAROON			2			QT	2	IB
430-43 GREEN BLUE			2			QT	2	IB
430-44 BLUE			2			QT	2	IB
430-45 CLEAN MAGENTA		2				GL	2	IB
430-46 MONASTRAL GOLD			2			QT	2	IB
430-47 BLUE PEARL			2			QT	2	IB
430-48 EXTRA FINE HI-PAK ALUMINUM			2			QT	2	IB

FUL-BASE NEW OPENING PAINT ORDER - NATIONAL RULE

DESCRIPTION	5GL	GL	QT	PT	1/2PT	UNIT	QTY	CLASSIFICATION
430-49 FINE ALUMINUM		2				GL	2	IB
430-50 BRONZE PEARL			2			QT	2	IB
430-51 GREEN PEARL			2			QT	2	IB
430-52 DEEP BRIGHT RED			2			QT	2	IB
430-53 CRYSTAL FROST WHITE			2			QT	2	IB
430-54 PURPLE PEARL			2			QT	2	IB
430-55 FINE BRIGHT HI PAK ALUMINUM			2			QT	2	IB
430-56 RED VIOLET			2			QT	2	IB
400-01 BLACK FUL-THANE 2K		3				GL	3	IB
401-20 FUL-THANE 2K CLEAR		4				GL	4	IB
421-17 SELECTPRIME 2K PRIMER		3				GL	3	IB
421-19 SELECT PRIME GREY		3				GL	3	IB
422-23 FUL-SEAL SELECT		12				GL	12	IB
435-91 URETHANE BINDER		12				GL	12	IB
435-93 FAST BASECOAT FIXE		4				GL	4	IB
435-94 ACRYLIC ENAMEL BINDER		8				GL	8	IB
441-05 SILICONE & WAX REMOVER	1					5GL	1	IB
441-20 REDUCER FAST	1					5GL	1	IB
441-21 REDUCER MEDIUM	4					5GL	4	IB
441-22 REDUCER SLOW	2					5GL	2	IB
441-29 REDUCER SUPER FLOW		2				GL	2	IB
441-43 ETCH PRIMER ACTIVATOR		2				GL	2	IB
465-00 CLEAR COAT		2				GL	2	IB
481-16 WASH THINNER	2					5GL	2	IB
483-11 ACRYLIC ENAMEL CATALYST				12		PT	12	IB
483-15 URETHANE CATALYST				20		PT	20	II
483-18 FUL-THANE ACCELERATOR			1			QT	1	IB
483-30 BASE COAT CATALYST				4		PT	4	IB
483-78 SELECT CLEAR ACTIVATOR			4			QT	4	IB
483-79 SELECT CLEAR SLOW ACTIVATOR			4			QT	4	IB
483-84 SELECT CLEAR FAST ACTIVATOR			2			QT	2	IB
483-85 SELECT CLEAR HIGH TEMP			2			QT	2	IC
483-87 SELECTPRIME ACTIVATOR			6			QT	6	IB
483-99 SUNSHIELD ADDITIVE					5	1/2 PT	5	IA
491-17 ETCH PRIMER		2				GL	2	IB
495-01 URETHANE FISHEYE ELIMINATOR				4		PT	4	IB
496-00 SELECT CLEAR		2				GL	2	IB
497-00 SELECT CLEAR OVERALL		2				GL	2	IB

TOTAL NASON FUL-BASE PAINT PACKAGE

DUPONT

NEW OPENING PAINT ORDER
CHROMABASE SYSTEM
NATIONAL RULE

DESCRIPTION		5GL	GL	QT	PT	1/2PT	UNIT	QTY	CLASSIFICATION
150K	CHROMABASE BALANCER		1				GL	1	IB
175K	CHROMABASE BINDER		1				GL	1	IB
304S	LOW GLOSS VINYL CLEAR			1			QT	1	IB
305S	MEDIUM GLOSS VINYL CLEAR			1			QT	1	IB
306S	HIGH GLOSS VINYL CLEAR			1			QT	1	IB
801J	WHITE (HS)		1				GL	1	IC
802J	WHITE (LS)			1			QT	1	IC
803J	CRYSTALLINE WHITE			1			QT	1	IC
805J	JET BLACK			1			QT	1	IC
806J	BLACK (HS)		1				GL	1	IC
807J	BLACK (LS)			1			QT	1	IC
808J	GRAPHITE BLACK			1			QT	1	IC
810J	FINE ALUMINUM			1			QT	1	IC
811J	MEDIUM ALUMINUM			1			QT	1	IC
813J	MEDIUM COARSE ALUMINUM			1			QT	1	IC
814J	COARSE ALUMINUM			1			QT	1	IC
815J	MULTI-GRADE ALUMINUM			1			QT	1	IC
816J	MEDIUM FINE ALUMINUM			1			QT	1	IC
818J	BRIGHTNESS ADJUSTER			1			QT	1	IC
819J	FINE BRIGHT ALUMINUM			1			QT	1	IC
820J	VIOLET			1			QT	1	IC
821J	VIOLET BLUE			1			QT	1	IC
826J	ORGANIC BLUE			1			QT	1	IC
827J	BLUE			1			QT	1	IC
828J	FAST BLUE			1			QT	1	IC
829J	LIGHT BLUE			1			QT	1	IC
830J	FAST GREEN (HS)			1			QT	1	IC
831J	FAST GREEN (LS)			1			QT	1	IC
832J	GREEN			1			QT	1	IC
833J	GREEN GOLD			1			QT	1	IC
841J	YELLOW			1			QT	1	IC
843J	BRIGHT YELLOW			1			QT	1	IC
845J	TRANSPARENT YELLOW			1			QT	1	IC
846J	YELLOW ORANGE			1			QT	1	IC
850J	BRILLIANT RED			1			QT	1	IC
853J	RED ORANGE			1			QT	1	IC
855J	LIGHT RED			1			QT	1	IC
858J	DEEP MAROON			1			QT	1	IC
862J	TRANSPARENT RED			1			QT	1	IC
864J	MAGENTA			1			QT	1	IC
866J	RED VIOLET			1			QT	1	IC
867J	RED			1			QT	1	IC
869J	CABERNET RED			1			QT	1	IC
870J	FAST BLUE (LS)			1			QT	1	IC
878J	GOLD ALUMINUM			1			QT	1	IC
881J	YELLOW OXIDE (HS)			1			QT	1	IC
882J	YELLOW OXIDE (LS)			1			QT	1	IC

CHROMABASE SYSTEM NEW OPENING PAINT ORDER - NATIONAL RULE

DESCRIPTION		5GL	GL	QT	PT	1/2PT	UNIT	QTY	CLASSIFICATION
884J	RED OXIDE (LS)			1			QT	1	IC
885J	TRANSPARENT MAROON			1			QT	1	IC
886J	TRANSPARENT RED			1			QT	1	IC
890J	YELLOW TRANSOXIDE			1			QT	1	IC
891J	RED TRANSOXIDE			1			QT	1	IC
893J	BROWN			1			QT	1	IC
894J	EXTRA COARSE ALUMINUM			1			QT	1	IC
895J	BRIGHT COARSE ALUMINUM			1			QT	1	IC
1001S	WHITE PEARL				1		PT	1	IIIB
1002S	RED PEARL				1		PT	1	IIIB
1003S	BRONZE PEARL				1		PT	1	NA
1004S	BLUE PEARL				1		PT	1	IIIB
1005S	GOLD PEARL				1		PT	1	IIIB
1006S	COPPER PEARL				1		PT	1	IIIB
1007S	VIOLET PEARL				1		PT	1	IIIB
1008S	MOSS GREEN PEARL				1		PT	1	NA
1009S	SUPER GREEN PEARL				1		PT	1	IIIB
1010S	RED SATIN PEARL				1		PT	1	NA
1011S	FINE SATIN WHITE PEARL				1		PT	1	NA
1012S	FINE SATIN BLUE PEARL				1		PT	1	NA
1013S	ORANGE PEARL				1		PT	1	IIIB
1014S	RUTILE RED PEARL				1		PT	1	NA
1015S	BLUE GREEN PEARL				1		PT	1	NA
1018S	MEDIUM WHITE PEARL				1		PT	1	NA
1019S	RED GREEN PEARL				1		PT	1	NA
4530S	FLOP CONTROL AGENT			1			QT	1	IC
7160S	BASEMAKER LOW TEMP		1				GL	1	IB
7175S	MID TEMP BASEMAKER		1				GL	1	IB

TOTAL CHROMABASE PACKAGE

10	100	144	57	
50	100	36	7.125	**193.13**
				GALLONS