

**Standard Exemption No. 29755**  
**Building 200 Paint Booth**  
**May 1995**

Exemption No. 29755  
GROUP: COAT ID: 86084

\*\*\*GENERAL PERMIT INFORMATION

PERMIT: 29755 ENGR: BULLARD, KAREN M./  
ISSUED TO: DEPARTMENT OF THE ARMY-CAMP STANLEY  
UNIT NAME: SPRAY PAINT BOOTH  
OPERATING SCHEDULE: 24.0 HRS/DAY 7 DAYS/WK 52 WKS/YR  
LAT: 27-40-35 LONG: 098-37-52 REGION: 13 COUNTY: BEXAR  
NEAR CITY: BOERNE LOC: 25800 RALPH FAIR ROAD

\*\*\*PERMIT/SITE CONTACT INFORMATION:

PERSON: LT. DEAN C. SCHMELLING ADDR1: 25800 RALPH FAIR ROAD  
TITLE: POST COMMANDER ADDR2: BOERNE  
CITY: BOERNE STATE: TX ZIP: 78006 PHONE: (210)221-7461

\*\* CONSTRUCTION \*\*

TYPE APPL(C,S,X): (X)  
APPL RECD : 06-09-95  
DEFIC LTR SNT :  
SUPP INFO REQ :  
SUPP INFO RECD :  
APPL CMPLT :  
COMP LTR SNT :  
PUB NTC SNT :  
PUB NTC PUB :  
PUB HEAR (R,H) : ( )  
CNST TYPE(C,X,S): (X)  
DISP (D) : 07-24-95  
CNST START DATE :

\*\* OPERATING \*\*

OPERATION START :  
OPER APPL RECD :  
OPER APPL CMPLT :  
DISP(I,D): ( )  
OPR TYPE(R,S) : ( )  
\*\*\*\*\*  
\* I=ISSUED D=DENIED \*  
\* E=EXPIRED \*  
\* C=CNST S=SPECIAL \*  
\* X=EXEMPT R=OPER \*  
\*\*\*\*\*

\*\* CONTINUANCE \*\*

NOTICE MAILED :  
APPL RECD :  
DEFIC LTR SNT :  
SUPP INFO REQ :  
SUPP INFO RECD :  
APPL CMPLT :  
COMP LTR SNT :  
PUB NTC SNT :  
PUB NTC PUB :  
PUB HEAR(R,H) : ( )  
DISP(I,D,E):( ) :

EMISSIONS CHANGED :

\*\*\*REMARKS:

\*\*\*OTHER PERMIT DATES:  
APP/PERMIT VOIDED:  
APP ON HOLD UNTIL:  
CONST STOPPED UNTIL:

REASON:  
REASON:

VOID/HOLD CODES: PD-PLT DISMANTLED  
CR-COMPANY REQUEST TI-TIME EXPIRED  
DD-DATA DELAY TD-TECH DIFFICULT  
RE-REISSUED NR-NO RESPONSE

\*\*\*PERMIT TYPES/STANDARDS:

NEW MAJ SOURCE:> 100 TPY: SIC: 9999  
MAJOR MODIFICATION: PORTABLE: RELATED PERMITS: SUFFIX REASO  
NON-ATTAIN REVIEW: NSPS: TACB: CHG LOC:  
INSIGNIFICANT EMISSIONS: NESHAP: PSD-TX: CHG OWN:  
FUEL CONVERSION: TOXIC MATERIALS: STD EX NO.: 075

\*\*\*AIR CONTAMINANT INFORMATION:

NAME CODE MAX ALLOWABLE RATE ACTUAL  
LBS/HR TONS/YR TONS/YR

\*\*\*ABATEMENT EQUIPMENT:

John Hall, *Chairman*  
Pam Reed, *Commissioner*  
R. B. "Ralph" Marquez, *Commissioner*  
Dan Pearson, *Executive Director*



KMB

## TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

*Protecting Texas by Reducing and Preventing Pollution*

July 24, 1995

Lieutenant Colonel Dean C. Schmelling  
Post Commander  
DEPARTMENT OF THE ARMY  
CAMP STANLEY  
25800 Ralph Fair Road  
Boerne, Texas 78006

Re: Standard Exemption  
Registration Nos. 29755 and 29517  
Spray Paint Booths  
Boerne, Bexar County  
Account ID No. BG-0841-S

Dear Lieutenant Colonel Schmelling:

This is in response to your request to register two spray paint booths under Standard Exemption No. 75 at your facility at Boerne, Bexar County. The information submitted in support of your request has been evaluated and found to be insufficient to determine whether all the requirements of the standard exemption claimed in your registration requests and Texas Natural Resource Conservation Commission (TNRCC) Rule 116.211 of Regulation VI have been met. Therefore, we cannot confirm your claim of this exemption at this time.

Please submit the following information to allow us to confirm your eligibility to claim this exemption:

1. A list of the quantity of emissions from each source at your site. Please provide an estimate (in tons per year) of all emissions of criteria pollutants from every source, regardless of construction authorization.
2. Verification of fan flow rate capacities. The information previously submitted contained fan flow rate capacities that are lower than those required to meet the requirements for enclosed work areas in paragraph (j) of Standard Exemption No. 75. If these capacities are correct, please provide information to confirm that your facilities meet the requirements for non-enclosed work areas in paragraphs (k) and (l).

Lieutenant Colonel Dean C. Schmelling  
Page 2

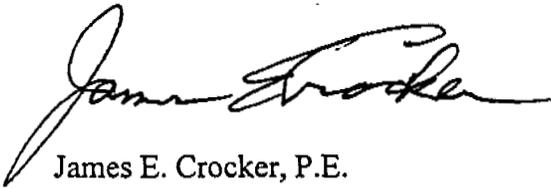
July 24, 1995

You may resubmit, with appropriate corrections, a new standard exemption registration request (PI-7) or a permit application/amendment (PI-1). To expedite the process at that time, please include all previously-assigned TNRCC Account ID, permit, or standard exemption registration numbers in your new submittal.

You are reminded that Sections 382.0518(a) and 382.057 of the Texas Clean Air Act, Texas Health and Safety Code, Chapter 382, provide that a construction permit must be obtained or a standard exemption fully complied with before work is begun on the construction of a new facility or modification of an existing facility that may emit air contaminants.

Your cooperation in this matter is appreciated. If you have further questions, please contact Ms. Karen M. Bullard of our Office of Air Quality, New Source Review Division at (512) 239-6142.

Sincerely,



James E. Crocker, P.E.  
Manager, Coatings and Combustion Section  
New Source Review Division (MC-162)  
Texas Natural Resource Conservation Commission

cc: Mr. James Menke, Air Program Manager, San Antonio

Record No. 37251

# COATINGS SECTION - STANDARD EXEMPTION REVIEW SHEET

Standard Exemption No. 75 Review

Received by TNRC: 6/9/95 by Engineer: 6/12/95 Initials: KMB1  
 Claimant: DEPARTMENT OF THE ARMY-CAMP STANLEY  
 Account ID No.: BG-0841-S Project No.: 29755 Record No.: 37251  
 Region: 13 County: Bexar City: Boerne  
 Project Overview: SPRAY PAINT BOOTH

Is registration required? Yes  No   
 Form Submitted: None  PI-7  PI-8  PI-7(124)

Is a site review required? Yes  No   
 If Yes: Received response from \_\_\_ on \_\_\_  
 Approved: N/A  Yes  No

Is an NOV involved? Unknown  Yes  No   
 If Yes: Does this claim resolve the NOV? N/A  Yes  No   
 If NOV is not resolved: Explain.

Is this exemption claim for a facility or operation at a site with previously permitted facilities? Yes  No   
 If Yes: Do any Special Conditions address use of standard exemptions at this site? N/A  Yes  No

Does this exemption modify a permitted facility? Yes  No   
 If Yes: Do Special Conditions preclude modification by standard exemption? N/A  Yes  No

If Yes: Does this standard exemption need to be incorporated into the next permit amendment or renewal? N/A  Yes  No

Has sufficient information been provided to determine if:  
 1. §116.211 (25 TPY VOC, etc.) or more stringent emission requirements of the exemption are being satisfied? Yes  No   
 2. the facility or operation satisfies the conditions of the exemption? Yes  No

**Engineer's Determination:**

- X10 Insufficient information to determine if §116.211 and/or exemption requirements are satisfied.
- X10B/X10C §116.211 and/or exemption requirements are not satisfied.
- X1/X2 §116.211 and/or exemption requirements are satisfied (non-autobody).
- X14 Register; no checklist.
- X15/X16/X17 §116.211 and/or exemption requirements are satisfied (autobody).
- Other

Contact with claimant: Date: \_\_\_ Purpose: \_\_\_  
 Date: \_\_\_ Purpose: \_\_\_

Comments: Cannot determine if facility meets Stdex. 75 conditions. Fan appears to be too small for enclosed painting ventilation requirements. Facility may not meet nonenclosed requirements. Camp Stanley requested additional time to verify fan capacity and other information.

Engineer: Karen M. Bullock Date: 7/24/95  
 Std. Ex. Coordinator: Craig Kutzera Date: 7/25/95

**CAMP STANLEY STORAGE ACTIVITY  
SUMMARY OF SOURCES AND AUTHORIZATION ACTIVITIES**

EPN	SOURCE	LOCATION	ANNUAL EMISSIONS (tpy)							AUTHORIZATION ACTIVITY/COMMENTS		
			VOC	PM	SO2	SO3	NOx	CO	ALDEHYDES		HCl	
1	Volatile Corrosion Inhibitor, Solvent Vat 1	Building 90	0.42	NA								Permit Application submitted May, 1995
2	Solvent Vats 2 and 3	Building 90	0.2	NA								Permit Application submitted May, 1995
3	Solvent Vat 4	Building 90	0.17	NA								Permit Application submitted May, 1995
4	Fingerprint Remover Tank	Building 90	0.16	NA								Permit Application submitted May, 1995
5	Solvent Recovery Unit	Building 90-1	0.06	NA								Permit Application submitted May, 1995
6	Paint Booth	Building 200	0.17	0.00015								Std Ex 75 Registration submitted May, 1995
FUG1	Paint Booth	Building 200	0.02	Negligible								Std Ex 75 Registration submitted May, 1995
7	Paint Booth	Building 27	2.24	0.012								Std Ex 75 Registration submitted May, 1995
FUG2	Paint Booth	Building 27	0.56	Negligible								Std Ex 75 Registration submitted May, 1995
	Tank 1		0.000095	NA								Std Ex 86
	Tank 2		0.00018	NA								Std Ex 86
	Tank 3		0.00019	NA								Std Ex 86
	Tank 4		0.00028	NA								Std Ex 86
	Tank 5		1.0922	NA								Std Ex 86
	Steel Shot Blaster	Building 90-2	NA	0.000102								Std Ex 102
	Steel Abrasive Tumbler	Building 90-2	NA	0.0000612								Std Ex 102
	Sand Blaster	Building 90-2	NA	0								Not a source; vented through baghouse into enclosed building
	Glass Bead Tumbler	Building 90-2	NA	0								Shut down
	Light Oil Tank	Building 90-1	0	NA								Not a source; vapor pressure of cold oil < 0.01 mm Hg
	Gun Bluing Shop	Building 90-1	0	NA						0.285		Std Ex 41
	Standby Generator (diesel)	Building 79	0.0017	0.0017	0.0013			0.0217	0.0047	0.0003		Std Ex 5/Emissions estimate from 9/93 EA
	Standby Generator (diesel)	Building 99	0.0017	0.0017	0.0013			0.0217	0.0047	0.0003		Std Ex 5/Emissions estimate from 9/93 EA
	Standby Generator (diesel)	Radio Tower	0.0017	0.0017	0.0013			0.0217	0.0047	0.0003		Std Ex 5/Emissions estimate from 9/93 EA
	Standby Generator (diesel)	Building 1	0	0								Shut down.
	Boiler (diesel)	Building 46	0.00065	0.0038	0.1365	0.0019	0.0385	0.0096				Std Ex 7/Emissions estimate from 9/93 EA
	Boiler (NG)	Building 89-1	0.02156	0.0203	0.0024		0.4068	0.0814				Std Ex 7/Emissions estimate from 9/93 EA
	Boiler (NG)	Building 89-2	0	0								Shut down.
	Boiler (diesel)	Building A100	0	0								Shut down.
	Boiler (diesel)	Building 201	0.002	0.0117	0.4153	0.0058	0.117	0.0292				Std Ex 7/Emissions estimate from 9/93 EA
	Wastewater Treatment Plant		Negligible*	NA								Std Ex 61
	Water Treatment		Negligible*	NA								Std Ex 61
	Gun Room	Building 90	NA	0.01466								Grandfathered
<b>TOTAL FOR ALL SOURCES</b>			<b>5.1223</b>	<b>0.0679</b>	<b>0.5581</b>	<b>0.0077</b>	<b>0.6274</b>	<b>0.1343</b>	<b>0.0009</b>	<b>0.2850</b>		

- \* Water treatment (which occurs at the water wells) and wastewater treatment do not involve any type of air stripping or VOC removal. The wastewater treatment facility is
- \*\* a small package plant and is strictly domestic treatment. Primary processes are standard domestic treatment processes (clarification, activated sludge, chlorination) with no air stripping involved.

July 14, 1995

Via facsimile (512) 239-1330

Karen M. Bullard  
Office of Air Quality/NSR Program/Coatings Section  
Texas Natural Resources Conservation Commission  
P.O. Box 13087  
Austin, Texas 78711-3087

Re: Standard Exemption Registration Requests for Camp Stanley Storage Activity

Dear Karen:

This letter supplies the additional information you requested on June 19, 1995 in order to process the above referenced standard exemption requests. Each item of concern is restated below, and is followed by our response.

1. Documentation from the filter manufacturer listing the filtration efficiency. This information is located on page 3 of the enclosed attachment labeled Airguard Paint Arrestor Pads. The two models used are PB 203 and PB 204, as indicated by asterisk on page 3.

2. A list of all other sources at your site. Please include an estimate of the type and amount of emissions as well as the authorization (permit, standard exemption, etc.) for each source. These data are included in the attached summary spreadsheet labeled Summary of Sources and Authorization Activities. Emissions estimates are not included for sources which are not specifically required to be estimated by their respective exemptions.

3. The capacity of the booth ventilation fans in cubic feet per minute. Also, please include the dimensions of the booths as well as the cross sectional area of the air inlet openings to the booths. Building 27 spray booth ventilation fan capacity is 1086 cfm; Building 200 spray booth ventilation fan capacity is approximately 1200 cfm. Dimensions for Building 27 booth are 15 ft wide, 30 ft deep, 8 ft tall; total inlet surface area is 80 sq ft. Dimensions for Building 200 booth are 7 ft wide, 7 ft deep, 8 ft tall. There are three inlets for Building 200 booth with dimensions as follows: 1) 7 ft x 8 ft; 2) 2 ft x 3 ft; 3) 2 ft x 3 ft.

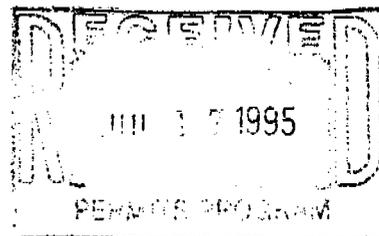
I trust that this information will allow you to continue the processing of the standard exemption requests for Camp Stanley Storage Activity. Please call me at (512) 719-6000 if you have any questions.

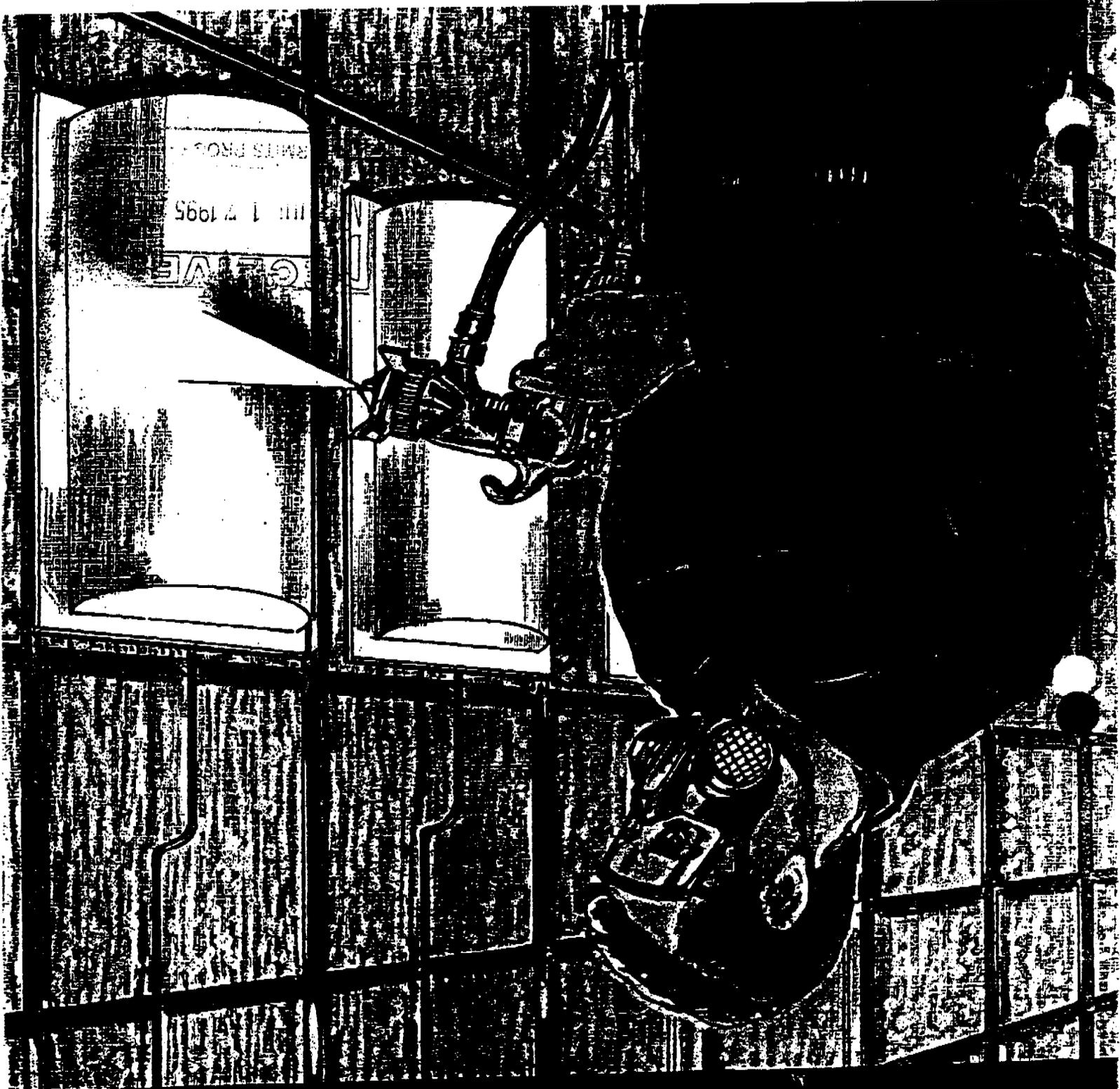
255 2565

Sincerely,

*Glynis H. Fowler*  
Glynis H. Fowler

xc: Brian Murphy  
Susan Roberts





**PAINT  
ARRESTOR PADS**



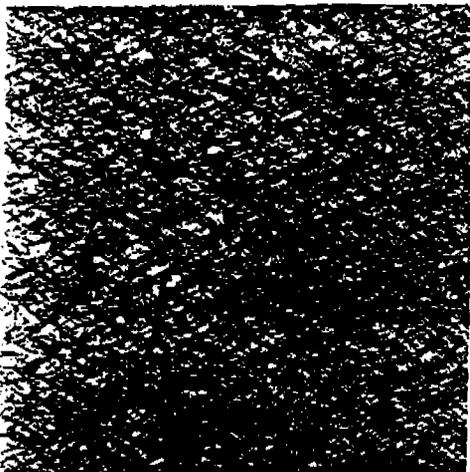


# PAINT ARRESTOR PADS

Airguard Paint Arrestor Pads are inexpensive, replaceable filters designed to collect the solids in paint overspray. Overspray particles are trapped in the filter before reaching the exhaust stacks, thereby reducing fire hazards, air pollution, damage to surrounding properties and expensive down time for cleaning and maintenance. Airguard offers two styles of Paint Arrestor Pad, fiberglass and expanded paper media. Both have been evaluated by various fire and flammability codes, and have been rated for use in virtually every type system. Various codes and approvals are printed on each carton. Airguard Paint Arrestor Pads resist face loading, have more holding capacity and stay rigid in the exhaust airstream. Fans, motors and ducts stay free of

clogging because of Airguard's high and uniform absorptency. Clean, dust free make-up air is necessary to replace air being exhausted from the paint booth.

To complete your effective overspray control system we recommend TYPE DP, TRIPLEX 85 or POLYGUARD HIGH EFFICIENCY filters for your make-up air system. These Airguard filters remove dust from the air that could damage or contaminate the coatings being applied to your product. Page four of this brochure gives their performances and availability. Let your Airguard representative evaluate your total system to assist you in selecting proper filtration products.



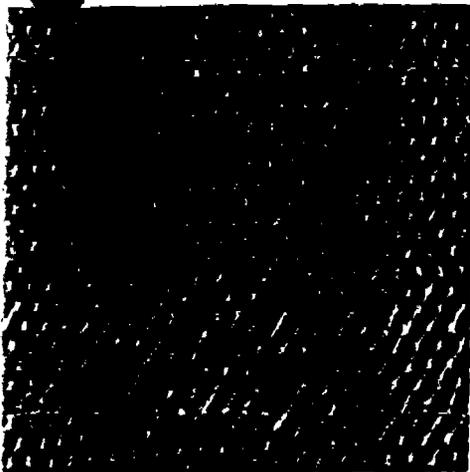
## FIBERGLASS MEDIA

Our scientifically spun glass media, Type AG Paint Arrestor, provides maximum rigidity and resilience in your exhaust air system. Because of its graduated density, relatively open face area and progressively denser toward the back, paint overspray penetrates deep into the pad. Overspray accumulates uniformly from back to front, not front to back. This prevents face loading and means less frequent replacement and down time. Airguard AG Paint Arrestors are constructed of white nonflammable fiberglass media that is color tinted to insure easy identification for quick installation. AG Paint Arrestor Pads come ready to use in pre-cut pads or in rolls. All pads are cut oversize to insure secure fitting and are trouble-free in removing. Type AG Paint Arrestor Pads offer an added bonus in saving on warehouse and storage space. Due to the high resiliency of the media, up to 4 times as many pads can be stored in the same area required by competitive models.

### PERFORMANCE DATA

MODEL NUMBER	NOMINAL SIZE	PKGS. UNITS	CLEAN RESISTANCE TO AIR FLOW		
			@ 200 FPM	@ 300 FPM	@ 350 FPM
PA 203	20 x 20 x 2	100	.03" W.G.	.06" W.G.	.08" W.G.
PA 204	20 x 25 x 2	100	.03" W.G.	.06" W.G.	.08" W.G.
PA 202	16 x 25 x 2	100	.03" W.G.	.06" W.G.	.08" W.G.
PA 201	18 x 20 x 2	100	.03" W.G.	.06" W.G.	.08" W.G.

All AG Paint Arrestor Pads are cut slightly oversize to allow ample edge sealing.



## PAPER MEDIA

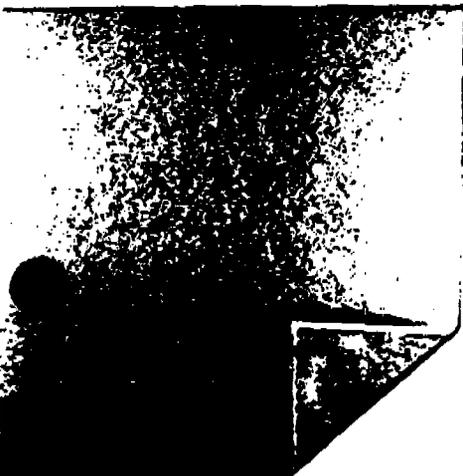
AG Paper Paint Arrestor Pads are composed of multiple layers of slit and expanded fire-retardant kraft. The slit pattern varies from coarse at the intake to fine at the exhaust. This layered construction, approximately 1" thick, is open at the face and gradually denser toward the back, and thus retards face loading and allows more even paint absorptency and build-up. These pads are currently in use in systems ranging from 300 to 250,000 CFM capacity. Because of this unique layered construction, resistance build-up is slow and airflow changes are minimal.

AG Paper Paint Arrestor Pads are often used in double layers, and as paint build-up occurs, the first pad or layer is discarded leaving the rear pad in use until completely soiled. Some other users of AG Paper Paint Arrestors use them in conjunction with the AG Fiberglass Paint Arrestors. Let your Airguard representative inspect your system for specific recommendations.

### PERFORMANCE DATA

MODEL NUMBER	NOMINAL SIZE	PKGS. UNITS	CLEAN RESISTANCE TO AIR FLOW		
			@ 200 FPM	@ 300 FPM	@ 350 FPM
PA 3032	20 x 20 x 1	48	.04	.07	.10
PA 3031	20 x 25 x 1	48	.04	.07	.10
PA 3033	16 x 25 x 1	48	.04	.07	.10
PA 3034	16 x 20 x 1	48	.04	.07	.10

All Airguard paper pads come pre-cut and ready to install.



## AG PAINT STOP

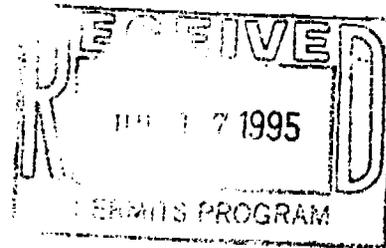
AG Paint Stop Media is designed to achieve High Paint Holding Capacity (PHC), High Efficiency, and a low Run Off Factor (ROF) in collecting paint overspraying in High Solid/High Production Paint Booths.

AG Paint Stop Media is a special blend of synthetic fibers ranging in size from a coarse denier on the air intake to fine denier on the air leaving side. Coarse fibers for high Paint Holding Capacity (PHC) and fine fibers for High Efficiency. The fibers are bonded together with acrylic binders and contain NO Halogens.

AG Paint Stop Media can replace Water Wash Systems, Paper/Poly Paint Arrestors and Fiberglass Paint Arrestors in paint spray booths. Our media is available in pad or blanket form. Standard roll widths are 72", 50" and 20" by 90' long. We recommend the blanket system for a cleaner booth environment, ease of handling and labor savings. AG Paint Stop Media is a superior product for collecting the new generation of High Solid Paints.

### PERFORMANCE DATA

MODEL NUMBER	NOMINAL SIZE	PKGS. UNITS	CLEAN RESISTANCE TO AIR FLOW		
			@ 200 FPM	@ 300 FPM	@ 350 FPM
PS 103	20 x 20 x 1	24	.15	.21	.25
PS 104	20 x 25 x 1	24	.15	.21	.25



**SUPREME II PA-MEDIA**

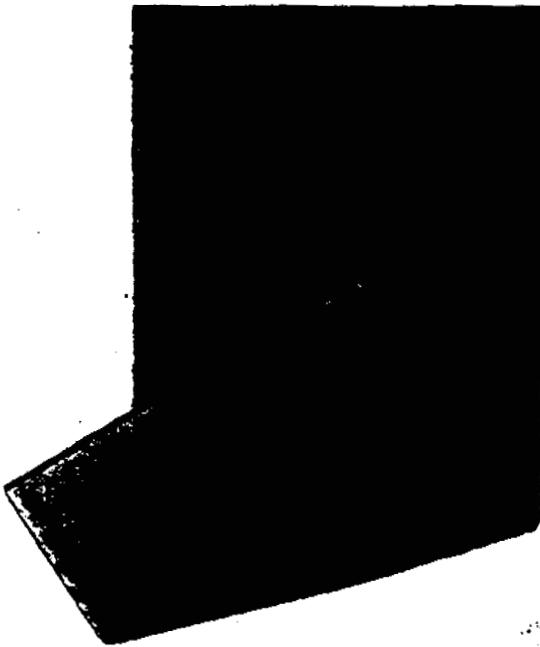
Supreme II PA-Media differs from the Paper Paint Arrestor primarily in design and form.

Kraft is not the only filtering material utilized. In addition to the paper, a secondary stage of man-made fibers are used. The number of layers and the arrangement of the baffles are slightly different than the standard paint arrestor. In addition to pad form, are also furnished in rolls.

These changes were made to push up filtering efficiency and hold down maintenance chores. How well Supreme II has succeeded in reaching the goals is indicated by reports from the lab and from manufacturers applying everything from "high solids" to "water borne" bake enamels. Tests have given Supreme a 99.5% average efficiency rating. (The tests were made by an independent laboratory on a single pad at an air velocity of 150 fpm. Higher efficiency could be expected if tests were conducted on two pads in tandem at higher air velocities.) More important, Supreme II has proven easy to use and highly efficient in coating of office furniture to the prefinishing of building components.

**PERFORMANCE DATA**

MODEL	NOMINAL SIZE	PKG. UNIT	CLEAN RESISTANCE TO AIR FLOW		
			@ 200 FPM	@ 300 FPM	@ 350 FPM
PAS II 3032	20 x 20 x 1	48	.13	.24	.30
PAS II 3031	20 x 25 x 1	48	.13	.24	.30



**STACKGUARD**

Airguard Stackguard is a revolutionary new paint arrestor product scientifically designed using high loft glass fibers integrated and bonded to dense polyester fibers. The combination of these performance proven fibers results in a high capacity media with efficiency exceeding 99%. High strength glass fibers won't rupture, tear, or disintegrate under loading. High efficiency polyester fibers provide a barricade for the finest paint particles. Bonding of these fibers eliminates any separation or bypass. Stackguard can be used in a single or tandem configuration and is particularly effective in collection of high solids overspray.

Because of Airguard's compression packaging system, Stackguard requires one fourth the freight, storage space, and handling cost of conventional paint arrestors. Upon utilization, original dimensions are restored due to its unique, 100% thickness memory.

Stackguard is certified by Underwriters Laboratories and carries a Class 2 rating. Additionally, Stackguard complies with all of the following:  
 NFPA Standard 33, OSHA 1910.107  
 New York City Board of Appeals & Standards, 292-80-SM

**PERFORMANCE DATA (SINGLE PAD)**

MODEL	NOMINAL SIZE	PKG. UNIT	CLEAN RESISTANCE TO AIR FLOW		
			@ 200 FPM	@ 300 FPM	@ 350 FPM
PB 203	20 x 20 x 2	50	.08	.13	.15
PB 204	20 x 25 x 2	50	.08	.13	.15
PB 403	20 x 20 x 4	25	.14	.24	.30
PB 404	20 x 25 x 4	25	.14	.24	.30

**ACCESSORIES**

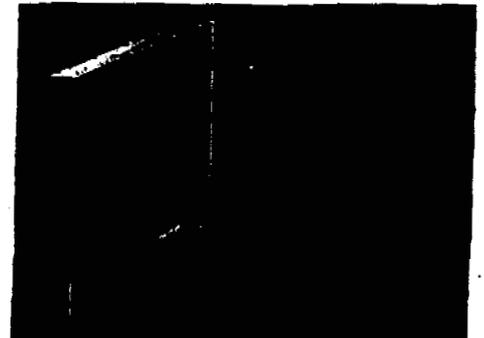
Airguard offers all equipment and accessories required to install a new paint arrestor system, add on to an existing bank, or simply maintain everyday requirements in your present booth. Your Airguard representative will be glad to assist in all of these areas. Accessory items required for either new installations or occasional repair include:

**HOLDING FRAMES:** Recommended 20 x 20 modules can be assembled in all heights and widths. These are ruggedly constructed to insure stability in the system, even under extreme conditions. Frames are prepunched on four sides to make joining them easy and fast. There are no rough or unfinished edges, and rivets are furnished with them. While 20 x 20 modules are recommended, frames are also available 20 x 25, 16 x 25, and 16 x 20. All Paint Arrestor Holding Frames are 2 1/2" deep.

**SNAP IN GRIDS:** These grids are used within the holding frame as a rigid backing for the paint arrestor pad. Grids have rubber tipped ends and prongs which extend into the air stream to insure pad stability. Grids are available in the same sizes as holding frame.

**ACCESSORY PARTS LIST**

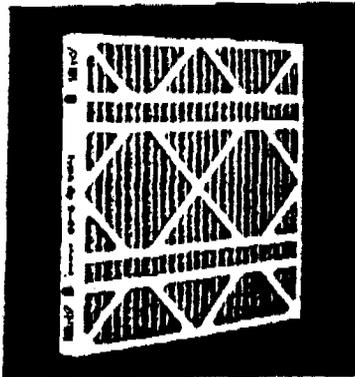
HOLDING FRAMES		SNAP IN GRIDS	
MODEL NO.	SIZE	MODEL NO.	SIZE
PA 942	20 x 20 x 2 1/2"	PA 1012	20 x 20
PA 941	20 x 25 x 2 1/2"	PA 1011	20 x 25
PA 943	16 x 25 x 2 1/2"	PA 1013	16 x 25
PA 944	16 x 20 x 2 1/2"	PA 1014	16 x 20
		PA 1010	20" Cross Wire



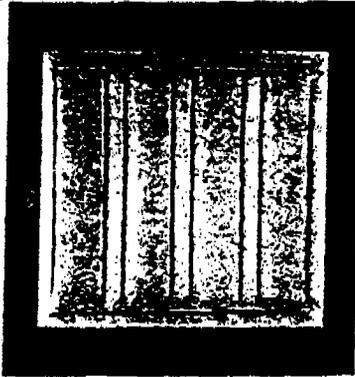
Other accessories for Paint Arrestor Systems include Cross Wire (rubber tipped) for front media support, Airguard Manometers to measure pressure drop across the filter bank, and piano hinge for frames and covers.

# AIRGUARD

OFFERS YOU A WIDE RANGE OF PRODUCTS TO CLEAN THE AIR  
ENTERING YOUR PAINTING AREA ... These include ...



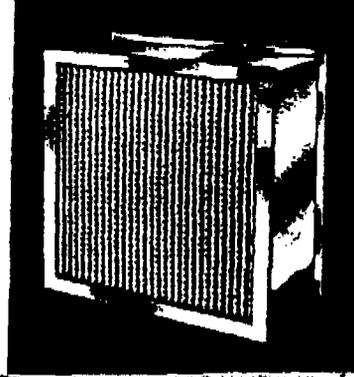
**TYPE DP  
EXTENDED SURFACE FILTERS**  
Available in all sizes, in two styles, and thickness of 1", 2", 4", and 6". This style filter offers efficiencies up to 4 times greater than conventional filters. In addition, the extended area design greatly increases filter service life and reduces changes required.



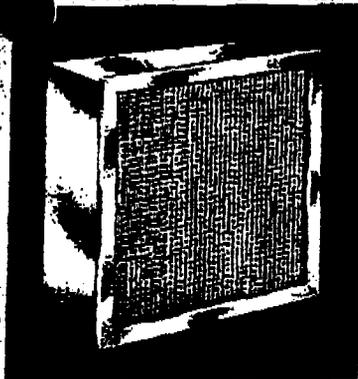
**SERIES 55 PANELS**  
For the highest efficiency of the Series AG Panels, select the Series 55. Two media layers, with liberally applied tackifier, provide top performance particularly in filtering air entering paint spray booths.



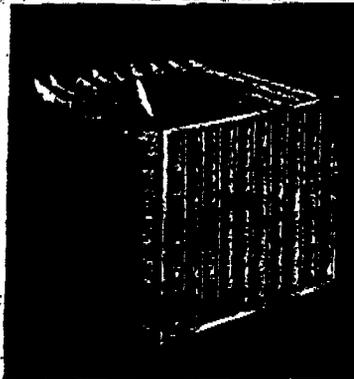
**TRIPLEX 85**  
TRIPLEX 85 dirt resistance exceeds 85%. Available with a special backing material, NY-GARD, that prevents migration of any fibers or contaminating particles that might injure paint finish. TRIPLEX 85 was developed for use in paint booths to filter the incoming air.



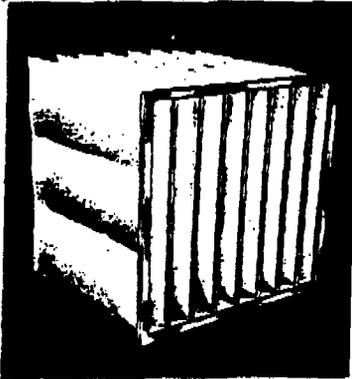
**VARIFLOW**  
High efficiency filters in a compact design, available to fit all HVAC systems. Variflow filters deliver up to 2,000 CFM in only 12" of depth. There are 6 frame styles to fit every application requirement. The variflow is available in three efficiency ranges up to 95%.



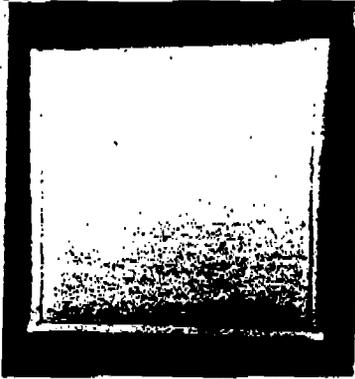
**VARIFLOW  
HIGH TEMPERATURE**  
Variflow HT is a high efficiency, dry, replaceable filter cartridge designed for drying ovens and other high temperature applications. It is offered in two depths (6" and 12"), and in three efficiency ranges (80-85%, 90-95%, & 90-95%).



**VENTI-PAK**  
The Venti-Pak family of high efficiency air filters offers three different efficiency levels of performance. They are available 80-85%, 90-95%, and 90-95% when evaluated by ASHRAE Test Code 52-78. Venti-Paks are offered in an extremely wide range of sizes and capacities to meet virtually any application need.



**FINAL MAT  
POCKET FILTERS**  
Final Mat Pocket Filters utilize synthetic microfibers for use in areas where glass fiber mediums are restricted. The media is completely bonded to eliminate shedding and to withstand high moisture and humidity. The ultimate filter for modern painting technology.



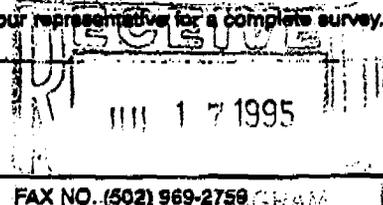
**FINAL MAT  
PANEL FILTERS**  
Final Mat was developed specifically for the advanced technology painting industry. The filter media is constructed of a progressively structured, resin bonded synthetic fleeces with a scrim backing. Each fiber is adhesive coated for maximum dirt retention. The ultimate filtration for clear coat finishes.

Airguard also offers a complete line of roll filters, cartridge types, filter bags, and other Panel Filters. Contact your representative for a complete survey.



**AIRGUARD INDUSTRIES, INC.**

P.O. BOX 32578, LOUISVILLE, KENTUCKY 40232-2578 • (502) 969-2304



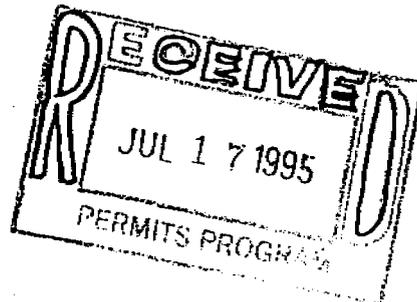
FAX NO. (502) 969-2759

Airguard Industries has a policy of continuous product research and development and reserves the right to change design and specifications without notice.

**CAMP STANLEY STORAGE ACTIVITY  
SUMMARY OF SOURCES AND AUTHORIZATION ACTIVITIES**

EPN	SOURCE	LOCATION	ANNUAL EMISSIONS (tpy)		AUTHORIZATION ACTIVITY
			VOC	PM	
1	Volatile Corrosion Inhibitor, Solvent Vat 1	Building 90	0.42	NA	Permit Application submitted May, 1995
2	Solvent Vats 2 and 3	Building 90	0.2	NA	Permit Application submitted May, 1995
3	Solvent Vat 4	Building 90	0.17	NA	Permit Application submitted May, 1995
4	Fingerprint Remover Tank	Building 90	0.16	NA	Permit Application submitted May, 1995
5	Solvent Recovery Unit	Building 90-1	0.06	NA	Permit Application submitted May, 1995
6	Paint Booth	Building 200	0.19	0.17	Standard Exemption 75 Registration submitted May, 1995
FUG1	Paint Booth	Building 200	0.02	<0.01	Standard Exemption 75 Registration submitted May, 1995
7	Paint Booth	Building 27	2.8	2.24	Standard Exemption 75 Registration submitted May, 1995
FUG2	Paint Booth	Building 27	0.56	0.01	Standard Exemption 75 Registration submitted May, 1995
	Tank 1		<0.01	NA	Standard Exemption 86
	Tank 2		<0.01	NA	Standard Exemption 86
	Tank 3		<0.01	NA	Standard Exemption 86
	Tank 4		<0.01	NA	Standard Exemption 86
	Tank 5		1.09	NA	Standard Exemption 86
	Steel Shot Blaster		*	*	Standard Exemption 102
	Steel Abrasive Tumbler		*	*	Standard Exemption 102
	Sand Blaster		*	*	Standard Exemption 102
	Glass Bead Tumbler		*	*	Standard Exemption 102
	Light Oil Tank		*	*	Standard Exemption 50
	Gun Bluing Shop	Building 90-1	*	*	Standard Exemption 41
	Standby Generator (diesel)	Building 79	*	*	Standard Exemption 5
	Standby Generator (diesel)	Building 99	*	*	Standard Exemption 5
	Standby Generator (diesel)	Radio Tower	*	*	Standard Exemption 5
	Standby Generator (diesel, not in use)	Building 1	*	*	Standard Exemption 5
	Boiler (diesel)	Building 46	*	*	Standard Exemption 7
	Boiler (NG)	Building 89-1	*	*	Standard Exemption 7
	Boiler (NG, not in use)	Building 89-2	*	*	Standard Exemption 7
	Boiler (diesel, not in use)	Building A100	*	*	Standard Exemption 7
	Boiler (diesel)	Building 201	*	*	Standard Exemption 7
	Wastewater Treatment Plant		*	*	Standard Exemption 61
	Water Treatment		*	*	Standard Exemption 61
	Gun Room	Building 90	NA	**	Grandfathered

- \* These sources meet all the requirements for their respective standard exemptions; no emissions estimates are required for these exemptions.
- \*\* This source is grandfathered. A very rough and conservative estimate of annual emissions, based on sand usage information supplied by Camp Stanley for a September 1993 Environmental Assessment is 11 tpy PM.



**FORM PI-7  
EXEMPTION REGISTRATION  
BUILDING 200**

**Section 3  
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FORM PI-7

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION  
REGISTRATION FORM FOR STANDARD EXEMPTIONS  
FORM PI-7

I. Company Name Department of the Army, Camp Stanley  
 (Corporation, Company, Government Agency, Firm, etc.)  
 Mailing Address 25800 Ralph Fair Rd., Boerne, TX 78006  
 Individual Authorized to Act for Applicant: Name LTC Dean C. Schmelling Title Post Commander  
 Address 25800 Ralph Fair Rd., Boerne, TX 78006 Telephone (210) 221-7461

II. LOCATION OF EXEMPT FACILITY (Latitude and Longitude must be to the nearest second):  
 Name of Plant or Site Department of the Army, Camp Stanley  
 Street Address 25800 Ralph Fair Rd., Boerne, Tx 78006  
 Nearest City Boerne County Bexar Latitude 29° 40' 35" Longitude 98° 37' 52"  
 SITE REQUIREMENTS: A. Submit a plot plan to scale of the property showing the location of plant boundaries, plant equipment, and surrounding area.  
 B. Furnish an area map with a scale showing the facility location relative to highways and towns.

III. TYPE OF FACILITY:  
 A. Applicable Standard Exemption Number(s) from TNRCC List \_\_\_\_\_  
 B. Name of Facility and Company's Facility Number \_\_\_\_\_  
 C. TNRCC Account Identification Number \_\_\_\_\_  
 D. Previous Special Exemption or Permit Number \_\_\_\_\_  
 E. Operating Schedule: Hours/day 24 Days/week 7 Weeks/year 52  
 F. Proposed Start of Construction \_\_\_\_\_ (Date) Operation \_\_\_\_\_ (Date)  
 G. Permanent [  ] Portable [  ]  
 H. Length of time at this site, if portable \_\_\_\_\_

IV. PROCESS INFORMATION 29430  
 Description of Process: Prepare and attach a written description of the exempt process and applicable checklists (when available). The description must be in sufficient detail to indicate that the facility will conform to the specified exemption.

V. EMISSIONS DATA Furnish a description of the basis for emission rates including fugitives. (Calculations, emission factors, measurement, NSPS, etc.)

Emission Point Number	Name of Source	Name of Air Contaminant	Emission Rate of Each Air Contaminant			
			lb/hr		tons/yr	
			Gaseous	Particulate	Gaseous	Particulate
EPN 6	Bldg. 200 Paint Booth	VOC	5.40		0.190	
EPN 6	Bldg. 200 Paint Booth	Particulates		0.013		0.00015

VI. A copy of the application is being sent to the Regional Office of the TNRCC: [  ] Yes [  ] No

VII. I, LTC Dean C. Schmelling Post Commander  
 (Name) (Title)  
 state that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project will satisfy the conditions and limitations of the indicated exemption. The facility will operate in compliance with all Regulations of the Texas Natural Resource Conservation Commission and with Federal Environmental Protection Agency Regulations governing air pollution.  
 DATE 5/31/85 SIGNATURE [Signature]

**ATTACHMENT IV.-a**

**PROCESS DESCRIPTION**

## Paint Booths

Both VOC and particulate emissions arise from the paint spray booths at Building 200. Painting operations at Building 200 (EPN 6) are limited to low volume applications to flat surfaces utilizing aerosol propelled paints and brush and roller coating. Aerosol painting and brush and roller painting techniques are utilized to minimize paint overspray and spillage. This spray booth does not utilize a pressurized spray gun. When coating or painting with aerosol, or brush- or roller-applied coatings, techniques are utilized to minimize paint overspray and spillage. The coatings used at both booths, while not exclusively low-VOC coatings, are those which meet military specifications for specific applications.

The following procedures are utilized to minimize fugitive emissions from spray booth operations at Building. 200:

- (1) All spills are immediately cleaned up.
- (2) All equipment clean-up is performed in the booth with the booth and work area fans operating.
- (3) All waste coatings, solvents and spent cleanup solvents are stored in sealed containers until removed for disposal or recycling.
- (4) Solvent and paint laden rags will be maintained in closed containers until removed for disposal or recycling.

At both buildings, painting operations are conducted in an enclosed spray booth in which the emissions of particulate matter are controlled by a dry filter system. The particulate removal systems have a removal efficiency of 99 percent, which surpasses the current TNRCC guidance for BACT of 95 percent removal efficiency.

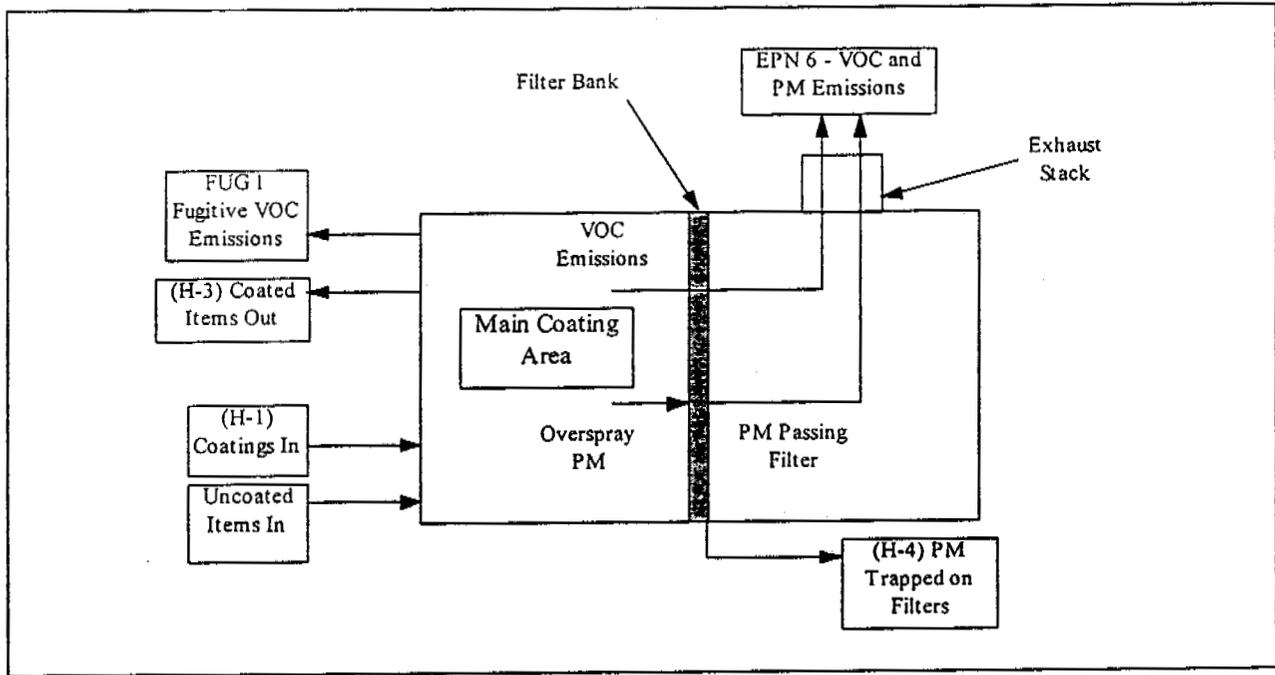
No additional controls are required as BACT for these booths.

**ATTACHMENT IV.-b**

**PROCESS FLOW DIAGRAMS**

### PROCESS FLOW DIAGRAMS

Figure IV.1. Process Flow Diagram for Paint Booth - Building 200



29433

**ATTACHMENT V.-a**

**EMISSION CALCULATIONS**

## EMISSION CALCULATIONS

### Paint Booth - Building 200 (EPN 6 and FUG 1)

The paint booth at Building 200 is used for flat-surface stenciling of crates, boxes, and other containers. Coatings are applied by aerosol, brush, or roller. Emissions from this booth are calculated following the calculation guidance provided in the TNRCC Technical Guidance Package for Coatings Sources: Spray Painting and Dip Coating Operations. The equations presented in the Technical Package have not been reprinted in this application, but sample calculations and spreadsheets are presented to demonstrate each calculation procedure.

**Product Usage Rates and MSDSs.** The names and maximum usage rates for the respective products used in the booth are presented in Table V.-a2.

Since this booth does not employ the use of an automatic spray gun, hourly rates can not be predicted from equipment design parameters (e.g., maximum gun flow rate). All usage rates are predicted maximums based on historical hourly and annual usage rates for each coating at the booth. Usage rates were determined by the normal operator of the booth and are considered to be conservative.

**Emissions Assumptions.** A summary of maximum hourly emissions for each product used in the booth is presented in Table V.-a2 in Attachment V.-a. A summary of annual emissions for each product is presented in Table V.-a3 in Attachment V.-a. The worksheets shown in Table V.-a4 of Attachment V.-a detail the calculation of bulk emissions for each material used in the booth. Each material is presented in a separate worksheet.

Maximum hourly emissions and maximum annual emissions are calculated from the maximum hourly usage rate and maximum annual usage rate, respectively, for each coating. Procedures follow the guidelines established in the aforementioned TNRCC technical guidance package. The following assumptions and general procedures are used during the calculation emissions:

- (1) The solids content of each material is taken as the difference between the material density and the maximum VOC content of the material as listed on the product MSDS.
- (2) For all brush- and roller-applied materials, the percent overspray was assumed to be zero (0), implying a 100 percent transfer efficiency.
- (3) For aerosol-applied materials, the percent overspray is estimated at 50 percent for the air atomization spraying method on flat surfaces using Table 232 from *Modern Pollution Control Technology, Volume 1*. Aerosol spraying was assumed to represent the air atomization method of spraying.
- (4) The filter efficiency of the filters in the booth is 99 percent.
- (5) Booth flashoff for each coating is estimated using Figure 655 from *Modern Pollution Control Technology, Volume 1*. Each item coated is assumed to dry

inside the booth for a minimum of 5 minutes before being removed. The enamel used in the booth was determined to have a booth flashoff of 40 percent using evaporation curve 5 in Figure 655 for alkyds. Lacquers used in the booth were determined to have a booth flashoff of 91 percent using evaporation curve 1 for lacquers. Where applicable, the amounts of thinners used to thin enamels and lacquers are assumed to have the same booth flashoff as the coating in which they are mixed.

- (6) All PM emissions presented are assumed to be stack emissions and not fugitive emissions.
- (7) The thinner amounts used strictly for cleanup are assumed to have booth flashoffs of 100 percent since all cleanup is conducted inside the booth with the fan on.
- (8) The overall maximum hourly amount of emissions presented in Table VI.C-a2 reflect the largest single hourly emissions release from a discrete application (either coating or thinner cleanup)
- (9) The total annual emissions presented in Table VI.C-a3 reflect the sum of annual emissions from all applications (both coating and thinner cleanup)

**Sample Calculations.** The following section presents sample calculations of emissions from the paint booth in Building 200. Calculations are performed using the assumptions previously stated. The coating chosen is Lacquer 2 - Black Gloss Aerosol Lacquer. The worksheet for this coating in Table VI.C-a4 presents the chemical data for this coating.

**Total Hourly VOC Emissions:**

$$\text{Total hourly VOC (lb/hr)} = \text{Max. Allowable Hourly Usage Rate (gal/hr)} * \text{Maximum VOC content (lb/gal)}$$

$$\text{Total hourly VOC} = 1.0 \text{ gal/hr} * 5.23 \text{ lb/gal} = 5.23 \text{ lb/hr}$$

**Hourly Fugitive VOC Emissions:**

$$\text{Hourly Fugitive VOC (lb/hr)} = \text{Total hourly VOC (lb/hr)} * \text{Transfer Efficiency} * \text{Fugitive Flashoff}$$

$$\text{Hourly Fugitive VOC} = 5.23 \text{ lb/hr} * 0.50 * 0.09 = 0.235 \text{ lb/hr}$$

**Hourly Booth VOC Emissions:**

$$\text{Hourly Booth VOC (lb/hr)} = \text{Total VOC (lb/hr)} - \text{Fugitive VOC (lb/hr)}$$

$$\text{Hourly Booth VOC} = 5.23 \text{ lb/hr} - 0.09 \text{ lb/hr} = 0.47 \text{ lb/hr}$$

**Hourly PM Emissions:**

$$\text{Hourly PM (lb/hr)} = \text{Max. Allowable Hourly Usage Rate (gal/hr)} * \text{Solids Cont. (lb/gal)} * (1 - \text{Trans. Effic.}) * (1 - \text{Filter Efficiency})$$

$$\text{Hourly PM} = 1.0 \text{ gal/hr} * 2.00 \text{ lb/gal} * (1 - .50) * (1 - 0.99) = 0.01 \text{ lb/hr}$$

All annual emission rates are calculated in an identical manner to hourly emission rates substituting the annual material use rate for the hourly usage rate.

**ATTACHMENT V.-b**

**SUPPLEMENTAL EMISSIONS DATA  
FOR BUILDING 200 PAINT BOOTH**

TABLE 18  
BUILDING 200 SPRAY BOOTH

Point Number (from Flow Diagram) EPN 6 (Figure IV.1 Bldg. 200 Paint Booth)			Annual Hours of Operation of this Booth 1,920 hours				
<b>EXHAUST GAS STREAM CHARACTERISTICS</b>							
Flow Rate (acfm)		Exhaust Stack			Building Height (ft)  20	Abatement Device Particulate Loading (lb/hr)	
Design Maximum	Average Expected 1,200	Temperature °F Ambient	Height (ft) 30	Diameter (ft) 3.5		Inlet 99% eff. filters	Outlet
<b>TYPE OF COATING AND MAXIMUM RATE OF USE</b>							
<u>Type</u>	<u>Max. Rate of Use (lb/hr)</u>	<u>Max. Rate of Use (Tons/yr)</u>		<u>Volatile Portion (%weight)</u>			
Lacquer	<u>See note (a)</u>	<u>See note (a)</u>		<u>See note (b)</u>			
Varnish							
Enamel	<u>See note (a)</u>	<u>See note (a)</u>		<u>See note (b)</u>			
Metal Primer							
Metal Spray							
Resin							
Sealer							
Shellac							
Stain							
Zinc Chromate							
Epoxy							
Polyurethane							
Other							
<b>SOLVENT COMPOSITION AND RATE OF USE (INCLUDE THAT SUPPLIED WITH COATING)</b>							
<u>Chemical Composition of Volatiles &amp; wt. (%)</u>		<u>Max. Rate of Use (lb/hr)</u>		<u>Max Rate of Use (ton/yr)</u>			
<u>See note (b)</u>		<u>See note (a)</u>		<u>See note (a)</u>			
<b>TYPE AND COST OF ABATEMENT DEVICE</b>							
<input type="checkbox"/> Spray Chamber (water use gal/hr) _____ <input type="checkbox"/> Water Curtain (water use gal/hr) _____ <input checked="" type="checkbox"/> Dry Filter Pads (No.) <u>20</u> (Size) <u>21"x21"x1"</u> <input type="checkbox"/> Other (Explain) _____							
Capital Installed Cost \$ <u>N/A - Federal Facility</u> Annual Operating Cost \$ <u>N/A - Federal Facility</u>							
<b>METHOD OF SPRAYING</b>			<b>DESCRIPTION OF ITEMS TO BE COATED (SHAPE AND SIZE)</b>				
<input type="checkbox"/> Air Atomization <input type="checkbox"/> Airless <input type="checkbox"/> Electrostatic <input type="checkbox"/> Disc <input type="checkbox"/> Airless <input type="checkbox"/> Air-Atomized <input checked="" type="checkbox"/> Other <u>Aerosol/Brush/Roller</u>			Coating is primarily stencilling of letters and symbols on boxes, crates, and other containers. Containers vary in size but are cubic in shape. Coating is almost exclusively flat-surface coating.				

(a) Hourly and annual usage rates for materials in this booth are shown in table V.-a1 in Attachment V.-a. Densities and other specific information are presented in the worksheets of Table V.-a4.

(b) Volatile contents of each material are presented in the worksheets of Table V.-a4 in Attachment V.-a

Table V.-b1. Summary of Hourly And Annual Emission Rates from Building 200 Paint Booth

	Total Hourly VOC Emissions	Hourly Fugitive VOC Emissions	Hourly Booth VOC Emissions	Hourly PM Emissions
Maximum Hourly Emissions (lb/hr):	5.40	3.19	5.40	0.013
Total Annual Emissions (ton/yr):	0.19	0.02	0.17	0.000

Table V.-a2. Summary of Hourly Emissions from Building 200 Paint Booth

Number	Name	Application Type	Total Hourly VOC Emissions (lb/hr)	Hourly Fugitive VOC Emissions (lb/hr)	Hourly Booth VOC Emissions (lb/hr)	Hourly PM Emissions (lb/hr)
<b>Enamels</b>						
Enamel 1	Desert Sand Alkyd Enamel with Thinner 2	Brush/Roller	5.31	3.19	2.13	0.0000
<b>Lacquers</b>						
Lacquer 1	Lustreless Lacquer with Thinner 1	Brush/Roller	5.29	0.48	4.82	0.0000
Lacquer 2	Black Gloss Aerosol Lacquer	Aerosol Can	5.23	0.24	4.99	0.0100
Lacquer 3	Olive Green Aerosol Lacquer	Aerosol Can	5.32	0.24	5.08	0.0127
Lacquer 4	Red Aerosol Lacquer	Aerosol Can	5.28	0.24	5.04	0.0125
Lacquer 5	Blue Aerosol Lacquer	Aerosol Can	5.33	0.24	5.09	0.0127
Lacquer 6	Yellow Aerosol Lacquer	Aerosol Can	5.36	0.24	5.12	0.0130
<b>Thinners</b>						
Thinner 1	Dope and Lacquer Thinner	Cleanup	5.15	0.00	5.15	0.0000
Thinner 2	Paint Thinner, Turpentine	Cleanup	5.40	0.00	5.40	0.0000
<b>Maximum Hourly Emissions (lb/hr)*</b>			<b>5.40</b>	<b>3.19</b>	<b>5.40</b>	<b>0.0130</b>

\* Maximum hourly emissions reflect the largest single hourly emissions release from a discreet application (coating or cleanup).

Table V.-a3. Summary of Annual Emissions from Building 200 Paint Booth

NSN	Name	Application Type	Total Annual VOC Emissions (ton/yr)	Annual Fugitive VOC Emissions (ton/yr)	Annual Booth VOC Emissions (ton/yr)	Annual PM Emissions (ton/yr)
<b>Enamels</b>						
Enamel 1	Desert Sand Alkyd Enamel with Thinner 2	Brush/Roller	0.024	0.014	0.010	0.00000
<b>Lacquers</b>						
Lacquer 1	Lustreless Lacquer with Thinner 1	Brush/Roller	0.030	0.003	0.027	0.00000
Lacquer 2	Black Gloss Aerosol Lacquer	Aerosol Can	0.013	0.001	0.012	0.00002
Lacquer 3	Olive Green Aerosol Lacquer	Aerosol Can	0.013	0.001	0.013	0.00003
Lacquer 4	Red Aerosol Lacquer	Aerosol Can	0.013	0.001	0.013	0.00003
Lacquer 5	Blue Aerosol Lacquer	Aerosol Can	0.013	0.001	0.013	0.00003
Lacquer 6	Yellow Aerosol Lacquer	Aerosol Can	0.013	0.001	0.013	0.00003
<b>Thinners</b>						
Thinner 1	Dope and Lacquer Thinner	Cleanup	0.034	0.000	0.034	0.00000
Thinner 2	Paint Thinner, Turpentine	Cleanup	0.036	0.000	0.036	0.00000
<b>Total Annual Emissions (ton/yr)</b>			<b>0.190</b>	<b>0.020</b>	<b>0.170</b>	<b>0.00015</b>

Table V.-a3. Summary of Annual Emissions from Building 200 Paint Booth  
 Enamel 1 - Desert Sand Alkyd Enamel with Thinner 2 -

Application Type:	Brush/Roller			
Total Allowable Hourly Application Rate (lb/hr)	1.25			
Total Max. Hourly Application Rate (lb/hr):	1.13			
Total Max. Annual Application Rate (lb/hr):	11.25			
Mix Ratio (Thinner:Coating):	1:8			
	Coating	Thinner		
Name:	Desert Sand Alkyd Enamel	Paint Thinner		
National Stock Number:	8010-00-111-8353	8010-00-246-6443		
Max. Hourly Usage Rate (gal/hr):	1.00	0.13		
Max. Allowable Usage Rate (gal/hr):	1.11	0.14		
Annual Use Rate (gal/yr):	10.00	1.25		
Specific Gravity:	1.200	0.864		
Density (lb/gal):	10.00	7.20		
Max. VOC Content (lb/gal):	3.88	7.20		
Solids Content (lb/gal):	6.12	0.00		
Percent Overspray (%):	0.00	0.00		
Transfer Efficiency (%):	100.00	100.00		
Filter Efficiency (%):	99.00	99.00		
Booth Flashoff (%):	40.00	40.00		
Fugitive Flashoff (%):	60.00	60.00		
Generic Short Term VOC Rate (wt% lb/hr):	11.10	1.01		
Generic Short Term PM Rate (wt% lb/hr):	0.00	0.00		
<b>HOURLY EMISSIONS:</b>	<b>Total Hourly VOC Emissions (lb/hr)</b>	<b>Hourly Fugitive VOC Emissions (lb/hr)</b>	<b>Hourly Booth VOC Emissions (lb/hr)</b>	<b>Hourly PM Emissions (lb/hr)</b>
Coating:	4.31	2.58	1.72	0.000
Thinner:	1.01	0.60	0.40	0.000
<b>Total:</b>	<b>5.31</b>	<b>3.19</b>	<b>2.13</b>	<b>0.000</b>
<b>ANNUAL EMISSIONS:</b>	<b>Total Annual VOC Emissions (ton/yr)</b>	<b>Annual Fugitive VOC Emissions (ton/yr)</b>	<b>Annual Booth VOC Emissions (ton/yr)</b>	<b>Annual PM Emissions (ton/yr)</b>
Coating:	0.019	0.012	0.008	0.000
Thinner:	0.005	0.003	0.002	0.000
<b>Total:</b>	<b>0.02</b>	<b>0.01</b>	<b>0.01</b>	<b>0.000</b>

Table V.-a3. Summary of Annual Emissions from Building 200 Paint Booth  
Lacquer 1 - Lustreless Lacquer with Thinner 1

Application Type:	Brush/Roller			
Max. Allowable Hourly Application Rate (lb/hr)	1.00			
Max. Hourly Application Rate (lb/hr):	1.13			
Maximum Annual Application Rate (lb/yr):	11.25			
Mix Ratio (Thinner:Coating):	1:8			
	Coating	Thinner		
Name:	Lustreless Lacquer	Lacquer Thinner		
National Stock Number:	8010-00-527-3196	8010-00-160-5788		
Max. Hourly Usage Rate (gal/hr):	1.00	0.13		
Max. Allowable Usage Rate (gal/hr):	0.89	0.11		
Annual Use Rate (gal/yr):	10.00	1.25		
Specific Gravity:	1.080	0.824		
Density (lb/gal):	9.00	6.87		
Max. VOC Content (lb/gal):	5.10	6.87		
Solids Content (lb/gal):	3.90	0.00		
Percent Overspray (%):	0.00	0.00		
Transfer Efficiency (%):	100.00	100.00		
Filter Efficiency (%):	99.00	99.00		
Booth Flashoff (%):	91.00	91.00		
Fugitive Flashoff (%):	9.00	9.00		
Generic Short Term VOC Rate (wt% lb/hr):	8.01	0.76		
Generic Short Term PM Rate (wt% lb/hr):	0.00	0.00		
<b>HOURLY EMISSIONS:</b>	<b>Total</b>	<b>Hourly</b>	<b>Hourly</b>	<b>Hourly</b>
	<b>Hourly VOC</b>	<b>Fugitive VOC</b>	<b>Booth VOC</b>	<b>PM</b>
	<b>Emissions</b>	<b>Emissions</b>	<b>Emissions</b>	<b>Emissions</b>
	<b>(lb/hr)</b>	<b>(lb/hr)</b>	<b>(lb/hr)</b>	<b>(lb/hr)</b>
Coating:	4.54	0.41	4.13	0.00
Thinner:	0.76	0.07	0.69	0.00
<b>Total:</b>	<b>5.29</b>	<b>0.48</b>	<b>4.82</b>	<b>0.00</b>
<b>ANNUAL EMISSIONS:</b>	<b>Total</b>	<b>Annual</b>	<b>Annual</b>	<b>Annual</b>
	<b>Annual VOC</b>	<b>Fugitive VOC</b>	<b>Booth VOC</b>	<b>PM</b>
	<b>Emissions</b>	<b>Emissions</b>	<b>Emissions</b>	<b>Emissions</b>
	<b>(ton/yr)</b>	<b>(ton/yr)</b>	<b>(ton/yr)</b>	<b>(ton/yr)</b>
Coating:	0.03	0.00	0.02	0.000
Thinner:	0.00	0.00	0.00	0.000
<b>Total:</b>	<b>0.03</b>	<b>0.00</b>	<b>0.03</b>	<b>0.000</b>

Table V.-a3. Summary of Annual Emissions from Building 200 Paint Booth  
 Lacquer 2 - Black Gloss Aerosol Lacquer

Name:	Black Gloss Aerosol Lacquer			
National Stock Number:	8010-00-290-6984			
Application Type:	Aerosol			
Max. Hourly Usage Rate (gal/hr):	0.40			
Max. Allowable Hourly Usage Rate (gal/hr):	1.00			
Annual Use Rate (gal/yr):	5.00			
Specific Gravity:	0.867			
Density (lb/gal):	7.23			
Max. VOC Content (lb/gal):	5.23			
Solids Content (lb/gal):	2.00			
Percent Overspray (%):	50.00			
Transfer Efficiency (%):	50.00			
Filter Efficiency (%):	99.00			
Booth Flashoff (%):	91.00			
Fugitive Flashoff (%):	9.00			
Generic Short Term VOC Rate (wt% lb/hr):	7.23			
Generic Short Term PM Rate (wt% lb/hr):	0.04			
<b>HOURLY EMISSIONS:</b>	<b>Total Hourly VOC Emissions (lb/hr)</b>	<b>Hourly Fugitive VOC Emissions (lb/hr)</b>	<b>Hourly Booth VOC Emissions (lb/hr)</b>	<b>Hourly PM Emissions (lb/hr)</b>
Coating:	5.23	0.24	4.99	0.010
<b>ANNUAL EMISSIONS:</b>	<b>Total Annual VOC Emissions (ton/yr)</b>	<b>Annual Fugitive VOC Emissions (ton/yr)</b>	<b>Annual Booth VOC Emissions (ton/yr)</b>	<b>Annual PM Emissions (ton/yr)</b>
Coating:	0.01	0.00	0.01	0.00002

Table V.-a3. Summary of Annual Emissions from Building 200 Paint Booth  
Lacquer 3 - Olive Green Lacquer Aerosol

Name:	Olive Green Aerosol Lacquer			
National Stock Number:	8010-00-584-3149			
Application Type:	Aerosol			
Max. Hourly Usage Rate (gal/hr):	0.40			
Max. Allowable Hourly Usage Rate (gal/hr)	1.00			
Annual Use Rate (gal/yr):	5.00			
Specific Gravity:	0.943			
Density (lb/gal):	7.86			
Max. VOC Content (lb/gal):	5.32			
Solids Content (lb/gal):	2.54			
Percent Overspray (%):	50.00			
Transfer Efficiency (%):	50.00			
Filter Efficiency (%):	99.00			
Booth Flashoff (%):	91.00			
Fugitive Flashoff (%):	9.00			
Generic Short Term VOC Rate (wt% lb/hr):	7.86			
Generic Short Term PM Rate (wt% lb/hr):	0.04			
<b>HOURLY EMISSIONS:</b>	<b>Total Hourly VOC Emissions (lb/hr)</b>	<b>Hourly Fugitive VOC Emissions (lb/hr)</b>	<b>Hourly Booth VOC Emissions (lb/hr)</b>	<b>Hourly PM Emissions (lb/hr)</b>
Coating:	5.32	0.24	5.08	0.013
<b>ANNUAL EMISSIONS:</b>	<b>Total Annual VOC Emissions (ton/yr)</b>	<b>Annual Fugitive VOC Emissions (ton/yr)</b>	<b>Annual Booth VOC Emissions (ton/yr)</b>	<b>Annual PM Emissions (ton/yr)</b>
Coating:	0.01	0.00	0.01	0.00003

Table V.-a3. Summary of Annual Emissions from Building 200 Paint Booth  
Lacquer 4 - Red Aerosol Lacquer

Name:	Red Aerosol Lacquer			
National Stock Number:	8010-00-721-9743			
Application Type:	Aerosol			
Max. Hourly Usage Rate (gal/hr):	0.40			
Max. Allowable Hourly Usage Rate (gal/hr)	1.00			
Annual Use Rate (gal/yr):	5.00			
Specific Gravity:	0.933			
Density (lb/gal):	7.78			
Max. VOC Content (lb/gal):	5.28			
Solids Content (lb/gal):	2.50			
Percent Overspray (%):	50.00			
Transfer Efficiency (%):	50.00			
Filter Efficiency (%):	99.00			
Booth Flashoff (%):	91.00			
Fugitive Flashoff (%):	9.00			
Generic Short Term VOC Rate (wt% lb/hr):	7.78			
Generic Short Term PM Rate (wt% lb/hr):	0.04			
<b>HOURLY EMISSIONS:</b>	<b>Total Hourly VOC Emissions (lb/hr)</b>	<b>Hourly Fugitive VOC Emissions (lb/hr)</b>	<b>Hourly Booth VOC Emissions (lb/hr)</b>	<b>Hourly PM Emissions (lb/hr)</b>
Coating:	5.28	0.24	5.04	0.012
<b>ANNUAL EMISSIONS:</b>	<b>Total Annual VOC Emissions (ton/yr)</b>	<b>Annual Fugitive VOC Emissions (ton/yr)</b>	<b>Annual Booth VOC Emissions (ton/yr)</b>	<b>Annual PM Emissions (ton/yr)</b>
Coating:	0.01	0.00	0.01	0.00003

Table V.-a3. Summary of Annual Emissions from Building 200 Paint Booth  
Lacquer 5 - Blue Aerosol Lacquer

Name:	Blue Aerosol Lacquer			
National Stock Number:	8010-00-721-9746			
Application Type:	Aerosol			
Max. Hourly Usage Rate (gal/hr):	0.40			
Max. Allowable Hourly Usage Rate (gal/hr)	1.00			
Annual Use Rate (gal/yr):	5.00			
Specific Gravity:	0.945			
Density (lb/gal):	7.88			
Max. VOC Content (lb/gal):	5.33			
Solids Content (lb/gal):	2.55			
Percent Overspray (%):	50.00			
Transfer Efficiency (%):	50.00			
Filter Efficiency (%):	99.00			
Booth Flashoff (%):	91.00			
Fugitive Flashoff (%):	9.00			
Generic Short Term VOC Rate (wt% lb/hr):	7.88			
Generic Short Term PM Rate (wt% lb/hr):	0.04			
<b>HOURLY EMISSIONS:</b>	<b>Total Hourly VOC Emissions (lb/hr)</b>	<b>Hourly Fugitive VOC Emissions (lb/hr)</b>	<b>Hourly Booth VOC Emissions (lb/hr)</b>	<b>Hourly PM Emissions (lb/hr)</b>
Coating:	5.33	0.24	5.09	0.013
<b>ANNUAL EMISSIONS:</b>	<b>Total Annual VOC Emissions (ton/yr)</b>	<b>Annual Fugitive VOC Emissions (ton/yr)</b>	<b>Annual Booth VOC Emissions (ton/yr)</b>	<b>Annual PM Emissions (ton/yr)</b>
Coating:	0.01	0.00	0.01	0.00003

Table V.-a3. Summary of Annual Emissions from Building 200 Paint Booth  
Lacquer 6 - Yellow Aerosol Lacquer

Name:	Yellow Aerosol Lacquer			
National Stock Number:	8010-00-721-9744			
Application Type:	Aerosol			
Max. Hourly Usage Rate (gal/hr):	0.40			
Max. Allowable Hourly Usage Rate (gal/hr)	1.00			
Annual Use Rate (gal/yr):	5.00			
Specific Gravity:	0.956			
Density (lb/gal):	7.97			
Max. VOC Content (lb/gal):	5.36			
Solids Content (lb/gal):	2.61			
Percent Overspray (%):	50.00			
Transfer Efficiency (%):	50.00			
Filter Efficiency (%):	99.00			
Booth Flashoff (%):	91.00			
Fugitive Flashoff (%):	9.00			
Generic Short Term VOC Rate (wt% lb/hr):	7.97			
Generic Short Term PM Rate (wt% lb/hr):	0.04			
<b>HOURLY EMISSIONS:</b>	<b>Total Hourly VOC Emissions (lb/hr)</b>	<b>Hourly Fugitive VOC Emissions (lb/hr)</b>	<b>Hourly Booth VOC Emissions (lb/hr)</b>	<b>Hourly PM Emissions (lb/hr)</b>
Coating:	5.36	0.24	5.12	0.013
<b>ANNUAL EMISSIONS:</b>	<b>Total Annual VOC Emissions (ton/yr)</b>	<b>Annual Fugitive VOC Emissions (ton/yr)</b>	<b>Annual Booth VOC Emissions (ton/yr)</b>	<b>Annual PM Emissions (ton/yr)</b>
Coating:	0.01	0.00	0.01	0.00003

Table V.-a3. Summary of Annual Emissions from Building 200 Paint Booth  
 Thinner 1 - Dope and Lacquer Thinner

Name:	Dope and Lacquer Thinner			
National Stock Number:	8010-00-160-5788			
Application Type:	Cleanup Only *			
Max. Hourly Usage Rate (gal/hr):	0.50			
Max. Allowable Hourly Usage Rate (gal/hr)	0.75			
Annual Use Rate (gal/yr):	10.00			
Specific Gravity:	0.824			
Density (lb/gal):	6.87			
Max. VOC Content (lb/gal):	6.87			
Solids Content (lb/gal):	0.00			
Percent Overspray (%):	0.00			
Transfer Efficiency (%):	100.00			
Filter Efficiency (%):	99.00			
Booth Flashoff (%):	100.00	All cleaning assumed to be done within booth		
Fugitive Flashoff (%):	0.00			
Generic Short Term VOC Rate (wt% lb/hr):	5.15			
Generic Short Term PM Rate (wt% lb/hr):	0.00			
<b>HOURLY EMISSIONS:</b>	<b>Total Hourly VOC Emissions (lb/hr)</b>	<b>Hourly Fugitive VOC Emissions (lb/hr)</b>	<b>Hourly Booth VOC Emissions (lb/hr)</b>	<b>Hourly PM Emissions (lb/hr)</b>
Thinner:	5.15	0.00	5.15	0.00
<b>ANNUAL EMISSIONS:</b>	<b>Total Annual VOC Emissions (ton/yr)</b>	<b>Annual Fugitive VOC Emissions (ton/yr)</b>	<b>Annual Booth VOC Emissions (ton/yr)</b>	<b>Annual PM Emissions (ton/yr)</b>
Thinner:	0.03	0.00	0.03	0.000

Table V.-a3. Summary of Annual Emissions from Building 200 Paint Booth  
 Thinner 2 - Paint Thinner, Turpentine

Name:	Paint Thinner, Turpentine			
National Stock Number:	8010-00-246-6443			
Application Type:	Cleanup Only *			
Max. Hourly Usage Rate (gal/hr):	0.50			
Max. Allowable Hourly Usage Rate (gal/hr)	0.75			
Annual Use Rate (gal/yr):	10.00			
Specific Gravity:	0.864			
Density (lb/gal):	7.20			
Max. VOC Content (lb/gal):	7.20			
Solids Content (lb/gal):	0.00			
Percent Overspray (%):	0.00			
Transfer Efficiency (%):	100.00			
Filter Efficiency (%):	99.00			
Booth Flashoff (%):	100.00	All cleaning assumed to be done within booth		
Fugitive Flashoff (%):	0.00			
Generic Short Term VOC Rate (wt% lb/hr):	5.40			
Generic Short Term PM Rate (wt% lb/hr):	0.00			
<b>HOURLY EMISSIONS:</b>	<b>Total Hourly VOC Emissions (lb/hr)</b>	<b>Hourly Fugitive VOC Emissions (lb/hr)</b>	<b>Hourly Booth VOC Emissions (lb/hr)</b>	<b>Hourly PM Emissions (lb/hr)</b>
Thinner:	5.40	0.00	5.40	0.00
<b>ANNUAL EMISSIONS:</b>	<b>Total Annual VOC Emissions (ton/yr)</b>	<b>Annual Fugitive VOC Emissions (ton/yr)</b>	<b>Annual Booth VOC Emissions (ton/yr)</b>	<b>Annual PM Emissions (ton/yr)</b>
Thinner:	0.04	0.00	0.04	0.000

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