



Rec'd 7-28-99

9th Floor, L & C Annex
401 Church Street
Nashville, TN 37243-1531
Telephone: (615) 532-0554

NOT TO BE USED FOR
TITLE V APPLICATIONS

PERMIT APPLICATION

APC 20

PLEASE TYPE OR PRINT AND SUBMIT IN DUPLICATE FOR EACH EMISSION SOURCE, ATTACH APPROPRIATE SOURCE DESCRIPTION FORMS.

1. ORGANIZATION'S LEGAL NAME <u>TATE FABRICATING Co., Inc.</u>		///	APC COMPANY — POINT NO.
2. MAILING ADDRESS (ST/RD/P.O. BOX) <u>419 INDUSTRIAL DRIVE</u>		FOR	<u>74-0087-01</u>
CITY <u>WHITE HOUSE</u>		///	APC LOG/PERMIT NO. <u>51770</u>
STATE <u>TN</u>	ZIP CODE <u>37188</u>	APC	
3. PRINCIPAL TECHNICAL CONTACT <u>WAYNE RUSSELL</u>		PHONE WITH AREA CODE <u>615-672-4909</u>	
4. SITE ADDRESS (ST/RD/HWY) <u>419 INDUSTRIAL DRIVE</u>		PHONE WITH AREA CODE <u>615-672-4909</u>	
CITY OR DISTANCE TO NEAREST TOWN <u>WHITE HOUSE</u>		COUNTY NAME <u>ROBERTSON</u>	
5. EMISSION SOURCE NO. (NUMBER WHICH UNIQUELY IDENTIFIES THIS SOURCE) <u>74-0087-01</u>		PERMIT RENEWAL YES (<u>X</u>) NO ()	
6. BRIEF DESCRIPTION OF EMISSION SOURCE <u>HAND OPERATED SPRAY PAINTING EQUIPMENT. PRESSURE POTS AND AIRLESS SPRAYERS</u>			

7. TYPE OF PERMIT REQUESTED (COMPLETE ONE LINE ONLY)				
CONSTRUCTION ()	STARTING DATE	COMPLETION DATE	LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER
OPERATING (<u>✓</u>)	DATE CONSTRUCTION STARTED	DATE COMPLETED	LAST PERMIT NUMBER <u>037513P</u>	EMISSION SOURCE REFERENCE NUMBER <u>74-0087-01</u>
LOCATION TRANSFER ()	TRANSFER DATE		LAST PERMIT NUMBER	EMISSION SOURCE REFERENCE NUMBER
ADDRESS OF LAST LOCATION				

8. DESCRIBE CHANGES THAT HAVE BEEN MADE TO THIS EQUIPMENT OR OPERATION SINCE THE LAST CONSTRUCTION OR OPERATING PERMIT APPLICATION. NO SIGNIFICANT CHANGES HAVE BEEN MADE. THE MAIN AIR LESS PUMP WORE OUT AND WAS REPLACED APPROX. 2 YRS AGO. WE PERIODICALLY REPLACE THE HAND SPRAY GUNS WHEN THEY CAN NO LONGER BE REPAIRED. WE ALSO REPAIR AND REPLACE THE PRESSURE POTS AND PORTABLE AIRLESS UNITS AS NECESSARY.

9. SIGNATURE (APPLICATION MUST BE SIGNED BEFORE IT WILL BE PROCESSED) <u>Ronald F. Tate</u>		DATE <u>JUL 27-95</u>
10. SIGNER'S NAME (TYPE OR PRINT) <u>RONALD F. TATE</u>	TITLE <u>PRESIDENT</u>	PHONE WITH AREA CODE <u>615-672-4909</u>

TABLE OF POLLUTION REDUCTION DEVICE OR METHOD CODES
(ALPHABETICAL LISTING)

NOTE: FOR CYCLONES, SETTLING CHAMBERS, WET SCRUBBERS, AND ELECTROSTATIC PRECIPITATORS, THE EFFICIENCY RANGES CORRESPOND TO THE FOLLOWING PERCENTAGES:

HIGH: 95 - 99+%, MEDIUM: 80 - 95%, AND LOW: LESS THAN 80%.

IF THE SYSTEM HAS SEVERAL PIECES OF CONNECTED CONTROL EQUIPMENT, INDICATE THE SEQUENCE. FOR EXAMPLE:

008/010: 97%.

IF NONE OF THE BELOW CODES FIT, USE 999 AS A CODE FOR OTHER AND SPECIFY IN THE COMMENTS.

NO EQUIPMENT	000	LIMESTONE INJECTION — DRY	041
ACTIVATED CARBON ADSORPTION	048	LIMESTONE INJECTION — WET	042
AFTERBURNER — DIRECT FLAME	021	LIQUID FILTRATION SYSTEM	049
AFTERBURNER — DIRECT FLAME WITH HEAT EXCHANGER	022	MIST ELIMINATOR — HIGH VELOCITY	014
AFTERBURNER — CATALYTIC	019	MIST ELIMINATOR — LOW VELOCITY	015
AFTERBURNER — CATALYTIC WITH HEAT EXCHANGER	020	PROCESS CHANGE	046
ALKALIZED ALUMINA	040	PROCESS ENCLOSED	054
CATALYTIC OXIDATION — FLUE GAS DESULFURIZATION	039	PROCESS GAS RECOVERY	060
CYCLONE — HIGH EFFICIENCY	007	SETTLING CHAMBER — HIGH EFFICIENCY	004
CYCLONE — MEDIUM EFFICIENCY	008	SETTLING CHAMBER — MEDIUM EFFICIENCY	005
CYCLONE — LOW EFFICIENCY	009	SETTLING CHAMBER — LOW EFFICIENCY	006
DUST SUPPRESSION BY CHEMICAL STABILIZERS OR		SPRAY TOWER (GASEOUS CONTROL ONLY)	052
WETTING AGENTS	062	SULFURIC ACID PLANT — CONTACT PROCESS	043
ELECTROSTATIC PRECIPITATOR — HIGH EFFICIENCY	010	SULFURIC ACID PLANT — DOUBLE CONTACT PROCESS	044
ELECTROSTATIC PRECIPITATOR — MEDIUM EFFICIENCY	011	SULFUR PLANT	045
ELECTROSTATIC PRECIPITATOR — LOW EFFICIENCY	012	VAPOR RECOVERY SYSTEM (INCLUDING CONDENSERS,	
FABRIC FILTER — HIGH TEMPERATURE	016	HOODING AND OTHER ENCLOSURES)	047
FABRIC FILTER — MEDIUM TEMPERATURE	017	VENTURI SCRUBBER (GASEOUS CONTROL ONLY)	053
FABRIC FILTER — LOW TEMPERATURE	018	WET SCRUBBER — HIGH EFFICIENCY	001
FABRIC FILTER — METAL SCREEN (COTTON GINS)	059	WET SCRUBBER — MEDIUM EFFICIENCY	002
FLARING	023	WET SCRUBBER — LOW EFFICIENCY	003
GAS ADSORPTION COLUMN — PACKED	050	WET SUPPRESSION BY WATER SPRAYS	061
GAS ADSORPTION COLUMN — TRAY TYPE	051		
GAS SCRUBBER (GENERAL; NOT CLASSIFIED)	013		

TABLE OF EMISSION ESTIMATION METHOD CODES

NOT APPLICABLE. EMISSIONS ARE KNOWN TO BE ZERO	0
EMISSIONS BASED ON SOURCE TESTING	1
EMISSIONS BASED ON MATERIAL BALANCE USING ENGINEERING EXPERTISE AND KNOWLEDGE OF PROCESS	2
EMISSIONS CALCULATED USING EMISSION FACTORS FROM EPA PUBLICATION NO. AP-42 COMPILATION OF	
AIR POLLUTANT EMISSION FACTORS	3
JUDGEMENT	4
EMISSIONS CALCULATED USING A SPECIAL EMISSION FACTOR DIFFERING FROM THAT IN AP-42	5
OTHER (SPECIFY IN COMMENTS)	6



SURFACE COATING DESCRIPTION

APC 31

PLEASE TYPE OR PRINT AND SUBMIT IN DUPLICATE FOR EACH SPRAY BOOTH, DIP TANK OR OTHER SURFACE COATING EQUIPMENT, ATTACH TO THE PERMIT APPLICATION.

1. ORGANIZATION NAME TATE FABRICATING CO., INC.		///	APC COMPANY - POINT NO.	
2. EMISSION SOURCE NO. (AS ON PERMIT APPLICATION) 74-0087-01		SIC CODE 3441	///	APC SEQUENCE NO.
3. SOURCE LATITUDE 36.2830	LONGITUDE 86.4100	UTM VERTICAL	UTM HORIZONTAL	
4. TYPE OF COATING OPERATION →	SPRAY BOOTH	DIP TANK	OTHER (DESCRIBE) SPRAY COATING IN DESIGNATED AREAS	
5. MANUFACTURER GRACO		MODEL NUMBER 208-356	SERIAL NUMBER (OR PLANT ID)	
CONSTRUCTION DATE		MODIFICATION DATE REPLACED AIRLESS PUMP		
DESCRIBE ANY MODIFICATIONS* NO SIGNIFICANT MODIFICATIONS HAVE BEEN MADE. THE MAIN AIRLESS PUMP WORE OUT AND WAS REPLACED ABOUT 2 YEARS AGO. WE PERIODICALLY REPLACE THE HAND SPRAY GUNS WHEN THE GUN CAN NO LONGER BE REPAIRED. WE ALSO REPAIR AND REPLACE THE PRESSURE POTS AND PORTABLE AIRLESS UNITS AS NECESSARY.				
6. DESCRIBE ARTICLES COATED STRUCTURAL STEEL BUILDING COMPONENTS SUCH AS BEAMS, COLUMNS, HANDRAIL, STAIRS, ETC.				
7. NORMAL OPERATION:	HOURS/DAY 10	DAYS/WEEK 5	WEEKS/YEAR 52	DAYS/YEAR
8. SPRAY BOOTH DIMENSIONS (FT):	WIDTH	HEIGHT	DEPTH	NUMBER OF OPEN SIDES
9. METHOD OF SPRAY:	AIRLESS <input checked="" type="checkbox"/>	AIR ATOMIZED SOME	ELECTROSTATIC AIRLESS DISC AIR ATOMIZED	
			OVERSPRAY (PERCENT) 10	DATE PURCHASED*
10. EXHAUST FAN DATA:	NUMBER OF FANS 5		TOTAL HORSEPOWER	
			TOTAL VOLUME (CFM)	
11. EXHAUST CONTROL:	NONE	WATERWASH	EXHAUST FILTERS	BAFFLE PLATES
				ADSORPTION**
12. EXHAUST STACK DATA***	DIAMETER (FT)	HEIGHT (FT) ABOVE GRADE	FLOW (CFM)	SPECIFY SERIAL NOS. THAT SHARE THIS VENT

*THE ACTUAL SURFACE COATING EQUIPMENT (SPRAY GUN, SPRAY HEADS, ETC.), AND NOT THE SPRAY BOOTH PER SE, DETERMINES THE STATUS OF THE SOURCE (NEW OR EXISTING).

**ATTACH A DETAILED DESCRIPTION.

***COMPLETE ONE LINE FOR EACH STACK OR VENT.

NOTE: THIS APPLICATION WILL NOT BE PROCESSED UNLESS ALL OF THE FOLLOWING INFORMATION IS PROVIDED.

13. COATINGS AND THINNERS USED: LIST ALL TYPES OF COATINGS AND THINNERS USED AND ATTACH A STATEMENT OF THE CHEMICAL COMPOSITION OF EACH. THIS STATEMENT USUALLY MAY BE OBTAINED FROM THE COATING OR THINNER SUPPLIER. THE MINIMUM INFORMATION REQUIRED IS THE PERCENT OF SOLIDS BY WEIGHT, THE PERCENT VOLATILE BY WEIGHT, THE HYDROCARBON COMPOSITION AND/OR DESCRIPTION OF THE VOLATILE COMPONENT, AND THE DENSITY OF THE COATING OR THINNER IN POUNDS PER GALLON.

LINE ID	COATING NAME	% SOLIDS BY WT	% VOLATILE BY WT	DENSITY (LBS/GAL)	QUANTITY USED		
					GALLONS/DAY		GAL/MO
					AVERAGE	MAXIMUM*	AVERAGE
A.	LEAD FREE PRIMER RED OXIDE	61%	39%	10.6	20	33	400
B.							
C.							
	THINNER NAME						
D.							
E.							
F.							
	CLEAN-UP SOLVENT NAME						
G.	XYLENE	0%	100%	7.17	1	3	20
H.							
14. SIGNATURE				DATE			
Wayne Russell				7-27-99			

*NOTE: FOR NEW CONSTRUCTION THIS QUANTITY WILL BE USED AS A PERMIT LIMITATION ON CAPACITY.



RECEIVED

1999 JUL 28 PM 3: 38

AIR POLLUTION CONTROL

419 Industrial Drive • White House, TN 37188
Phone: (615) 672-4909 and FAX (615) 672-4944

July 27, 1999

Technical Secretary
State of Tennessee
Department of Environment and Conservation
Division of Air Pollution Control
9th Floor, L & C Annex
401 Church Street
Nashville, TN 37243-1531

74-0087

Dear Technical Secretary:

The purpose of this letter is to request the timely renewal of our operating permit prior to 10/1/99 and to make written notification to the Technical Secretary as to the change that has been made to the ownership for this permitted facility. The new person's name is Ronald F. Tate, President of Tate Fabricating Co., Inc.

Included in this mailing is the application (APC 20) for the renewal of our OPERATING PERMIT which expires on 10/1/99. Also included is a Surface Coating Description (APC 31).

Please call me (Wayne Russell at 615-672-4909 ext. 22) prior to processing this renewal as I have some questions as they relate to the renewal form. Some of the questions on the form do not apply to us due to the unusual size and nature of the product we produce. We fabricate custom structural steel buildings. They are all different from each other such as churches, prisons, office buildings, schools, motels/hotels, stores, etc. The very large and heavy steel components must be fabricated and primed within the walls of the shop and they are moved as little as possible due to time factors and safety factors involved. No booth design would work for all of the variety of the components we make. We do have areas designated in the shop near the truck loading areas (large doors on both sides of shop) where we do most of the painting. 98% of the time the specifications call for red oxide shop primer. We do, from time to time, get jobs that call for a different type of primer but they are rare and a one-time use only, just for that job. For this reason I have only listed our shop primer on the surface coating description form. When you call we can discuss the particulars involved on my renewal application.

Thank You,

Wayne Russell
Senior Industrial Engineer