ARKANSAS DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
DIVISION OF AIR POLLUTION CONTROL

Summary Report Relative to Permit Application

Submitted By: Aromatique, Inc.
504 S. Fourth Street
Heber Springs, AR 72543
Cleburne County
Contact Person: Mr. Lon Baureis
Contact Position: Director of Engineering
Phone Number: (501) 362-8169

CSN: 12-0072 **Permit No.:** 1478-AR-2 **Date Issued:** 1/6/98

Submittals: 06/16/97, 08/13/97, 09/05/97

Summary

Aromatique, Inc., owns and operates a decorative fragrance production facility located at 504 S. Fourth Street, Heber Springs, Cleburne County, Arkansas. The facility is divided up into three major areas. These areas are decorative fragrance, wood and hydrostone production.

Air permit #1478-AR-1 was issued to the facility on 04/04/95. Permit #1478-AR-2 is being issued to incorporate three minor permit modifications:

1. The solvent-based finishes previously used at SN-17 have been eliminated and replaced with water-based finishes. As a result of this change, the total amount of VOCs from this source has decreased from 16.2 lbs/hr to 0.3 lbs/hr.

2. The hydrostone dip tank (SN-26), and building 44 - final wood products (SN-20) have have been deleted.

3. SN-30 Hydrostone Spray Booth has been added to the permit.

Reviewed By: Derrick Brown **Approved By:** Keith A. Michaels
Applicable Regulation: Air Code SIP

Process Description

Building 31

This building is used to produce some of the decorative fragrance ingredients. Wood blocks are shaved to make tiny curls. Some of these curls are bagged and dipped into white latex paint (SN-01). The other wood curls are sent through the dryer and then bagged. The dryer is heated by natural gas and vented out the outside of the building (SN-08). Six (6) dye tanks (SN-02 through SN-07) are used to dye the bagged curls that have just been dryed.

Building 32

This building contains two (2) dryers which each have two (2) exhaust vents on the outside of the building (SN-09 through SN-12). Both dryers are heated by natural gas and are used to dry all bagged curls that are painted or dyed in Building 31.

Building 33

This building (SN-13) contains what is known as the lathe area. Here wooden apples, peaches, etc. are produced. All equipment is vented to a Murphy-Rogers LP-72 cyclone.

Building 34

Outside of this building is a natural gas fired drying cavity which is used to dry walnuts, pecans, etc. (SN-14). Heated air is blown into a concrete cavity which is approximately 50' long and 10' wide. On the concrete surface are several 6" diameter holes. Barrels containing the nuts are placed over the holes. The heated air is blown across the nuts, thereby drying them.

Building 37

At this building equipment and parts are repainted by oven spraying (SN-15).

Building 40

Outside (SN-16)n of this building is a natural gas fired drying cavity which is identical to the one outside of building 34.

Building 45

At this open air building bagged pine cones are dipped into a paint mixture (SN-17). Different colors are created by mixing a water base dip finish or water base white stain. The bagged pine cones are air dried after dipping.

Building 44

This building (SN-21) is known as the final wood working area. Here all cutting and sawing of wood products are vented to a Murphy-Rodgers MRM-14-4D baghouse. At the other end of the building there is a dye tank (SN-18) and a hand painting booth (SN-19). Both are used to finish products.

Also in Building 41 is a wax room. A hot water heater (SN-20) and a boiler (SN-28) are used to heat tanks which melt the wax.

Building 43

This building (SN-29) is known as the rose building. A dehumidifier is used to dry the roses before they are sent out in product form. This dehumidifier is heated by a natural gas fired water heater (SN-27). The flowers are then dipped in a solution, to preserve color, that contains methylene chloride.

Specific Conditions

1. Emissions shall not exceed the emission limits set forth in Table II. Emissions from any point source not specifically listed in Table II of this permit shall be a violation of this condition.

2. Visible emissions, as measured by EPA Method 9, shall not exceed the opacity values specified in Table II.

3. The permittee shall not cause or allow the emission of air contaminants, including odors or water vapor and including an air contaminant whose emission is not otherwise prohibited by this Code, if the emission of the air contaminant constitutes air pollution within the meaning of A.C.A. § 8-4-303. Also, the permittee shall not cause or allow the handling, transporting, or storage of any material in a manner which allows or may allow unnecessary amounts of air contaminants to become airborne.

4. For the following sources, the permittee shall not exceed the following chemical solutions usage.

TABLE I

SN-#	Component/ Pollutant	gal/mth	gal/yr
01	Latex Stain	1,625	19,500
15	Aluminum Pure White Safety Yellow	7.5 2.5 3.3	90 30 39.6
17	W/B Dip Finish White Satin	250 87.5	3000 1050
23	168 Washoff Lacquer	16.3 10.3	195.6 123.6
24	Lacquer	2.7	32.4
25	Lacquer	2.7	32.4
29	Elastoseal Methylene Chloride* Toluene*	73.3 100.8 9.2	879.6 1209.6 110.4

TABLE I (cont.)

SN-#	Component/ Pollutant	gal/mth	gal/yr
30	Clear Lacquer Bronzing	66.7	800.4
31	Clear Exterior Metal Coating	65	780

*HAPS, such as methylene chloride, and toluene are addressed in Table II.

The permittee shall maintain records for the above mentioned chemicals usage. These records shall be updated each month and shall be made available to Department personnel upon request. These records, in conjunction with the records required by Specific Condition #5, shall be used to determine compliance with the limits set forth in Table II.

5. Natural gas usage at this facility shall not exceed 1,696,066 cubic feet per month. The permittee shall maintain records which can be used by the Department to determine compliance with this condition. These records shall be updated on a monthly basis and shall be provided to Department personnel upon request.

6. Any modifications, construction, or reconstruction shall be reported to the Department in advance.

7. The permittee shall operate all equipment and associated control devices within design specifications as described in the permit application at all times.

8. This permit shall void and supersede all previous air permits. Permit #1478-AR-1 is hereby revoked.

TABLE II

ALLOWABLE EMISSION RATES							
SN	Description	Control Equipment	Emission Rate		Pollutant	Reg	%Opacity
			lb/hr	ton/yr			
01	Building 31 - Tank #1 (fugitive)	None	0.2	0.2	VOC	SIP	0
13	Building 33 - Lathe Area	Cyclone	16.9	17.6	PM/PM_{10}	SIP	10
15	Building 37 - Fugitive Painting of Equipment	None	0.5	0.5	VOC	SIP	10
17	Building 45 - Dip Tanks (2) (fugitive)	None	0.3	0.3	VOC	SIP	10
20	Building 44 - Final Wood Products (deleted)						
21	Building 44 - Final Wood Products	Baghouse	0.2	0.2	PM/PM_{10}	SIP	10
22	Building 41 - Hydrostone Products	Baghouse	0.1	0.1	PM/PM_{10}	SIP	10
23	Building 41 - Hydrostone Paint Booth #1	None	4.2	4.4	VOC	SIP	5

TABLE II (cont.)

ALLOWABLE EMISSION RATES							
SN	Description	Control Equipment	Emission Rate		Pollutant	Reg	%Opacity
			lb/hr	ton/yr			
24	Building 41 - Hydrostone Paint Booth #2	None	4.2	4.4	VOC	SIP	5
25	Building 41 - Hydrostone Paint Booth #3	None	4.2	4.4	VOC	SIP	5
26	Hydrostone Dip Tank (deleted)						
29	Dip Flower in Elastoseal	Baghouse	10.0	10.4	VOC	SIP	5
30	Hydrostone Spray Both	Baghouse	2.6	2.6	VOC	SIP	5
31	Building 44 - Final Products - Dip Booth	None	1.9	2.0	VOC	SIP	5
TOTAL ALLOWABLE EMISSIONS			17.2 28.1 5.6 4.7 0.3 0.1	17.9 29.2 5.9 4.7 0.3 0.1	PM/PM_{10} VOC Methylene Chloride Toluene* Xylene* Methanol*		

*Totals are included in VOCs. Methyl Ethyl Ketone, Ethylbenzene, and Ethylene Glycol were included in VOC totals, but are not listed in Table II because values (ton/yr and lb/hr) were less than 0.1.

**Source Numbers 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 14, 16, 18, 19, 27, and 28 are emission points that emit insignificant quantities of combustion byproducts. A complete listing of these sources may be found in the summary.

The following is a list of sources at this facility that emit insignificant quantities of combustion byproducts due to design rate less than 1 million BTU per hour:

TABLE III

Source Number	Source Name
02	Building 31 Dye Tank #1 (fugitive)
03	Building 31 Dye Tank #2 (fugitive)
04	Building 31 Dye Tank #3 (fugitive)
05	Building 31 Dye Tank #4 (fugitive)
06	Building 31 Dye Tank #5 (fugitive)
07	Building 31 Dye Tank #6 (fugitive)
08	Building 31 Dryer (fugitive)
09	Building 32 Dryer #1, Exhaust #1
10	Building 32 Dryer #1, Exhaust #2
11	Building 32 Dryer #2, Exhaust #1
12	Building 32 Dryer #2, Exhaust #2
14	Building 34 Drying Cavity #1 (fugitive)
16	Building 40 Dry Cavity #2 (fugitive)
18	Building 44 Dip Tank #3 (fugitive)
19	Building 41 Wax Room Heater
27	Building 43 Dehumidifier Water Heater
28	Building 41 Wax Room Boiler

CERTIFICATE OF SERVICE

I, Keith A. Michaels, hereby certify that a copy of this permit has been mailed by first class mail to Aromatique, Inc., P.O. Box 1500, Heber Springs, Arkansas 72543 on this 6th day of January, 1998.

Keith A. Michaels, Chief, Air Division