

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION Large Coating, Printing and Chemical Operations Team APPLICATION PROCESSING AND CALCULATIONS	PAGE	1 of 13
	APP. NUMBERS	487020/1 & 489886
	PROCESSED BY	SMP
	REVIEWED BY	
	DATE	10/16/2008

**PERMIT TO CONSTRUCT & OPERATE EVALUATION
LITHOGRAPHIC PRESSES AND OXIDIZER**

Applicant's Name	HANDBILL PRINTERS
Company I.D.	61785
Mailing Address	14321 CORPORATE DR., GARDEN GROVE, CA 92843
Equipment Address	14321 CORPORATE DR., GARDEN GROVE, CA 92843

Equipment Description

APPLICATION NO. 487020 (P/C-New Construction)

LITHOGRAPHIC PRINTING LINE CONSISTING OF:

- 1) LITHOGRAPHIC PRINTING PRESS, HARRIS, MODEL NO. M110-B, SERIAL NO. 020389-1, FIVE COLOR, 26" WEB WIDTH, 100 HP TOTAL DRIVE.
- 2) DRYER, MEGTEC, MODEL NO. COANDA, 17' – 11.5" L. X 4' – 0" W. X 6' – 10.5" H., NATURAL GAS-FIRED, ONE LOW-NO_x BURNER BY MAXON, MODEL EB2-MRVCM CYCLOMAX, 1,600,000 BTU/HR MAXIMUM HEAT INPUT, WITH A 50 H.P. SUPPLY FAN, A 5 H.P. COMBUSTION BLOWER, AND 5 H.P. EXHAUST BLOWER.

APPLICATION NO. 487021 (P/C-Modification, Previous A/N 448692)

MODIFICATION OF AN AIR POLLUTION CONTROL SYSTEM COVERED UNDER PERMIT TO OPERATE F79726 (A/N 448693) CONSISTING OF:

- 1) REGENERATIVE THERMAL OXIDIZER, ADWEST TECHNOLOGIES INC., MODEL NO. PREMIER 12.OR TO95, SERIAL NO. 2479-12 OR TO95-2270, 12,000 CFM, 8' – 11" W X 24' – 0" L X 10' – 4.5" H, WITH A 3,570,000 BTU/HR MAXON NATURAL GAS-FIRED BURNER, MODEL KINEMAX-4G, A NATURAL GAS INJECTION SYSTEM OF 1,950,000 BTU/HR, TWO CERAMIC BEDS, AND A 5 H.P. COMBUSTION BLOWER.
- 2) EXHAUST SYSTEM WITH A 65 H. P. FAN, 12000 CFM, VENTING FOUR OVENS SERVING FOUR HEAT-SET LITHOGRAPHIC PRINTING PRESSES.

BY THE ADDITIONAL VENTING OF AN OVEN SERVING A HARRIS HEAT SET LITHOGRAPHIC PRINTING PRESS.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION Large Coating, Printing and Chemical Operations Team APPLICATION PROCESSING AND CALCULATIONS	PAGE	2 of 13
	APP. NUMBERS	487020/1 & 489886
	PROCESSED BY	SMP
	REVIEWED BY	
	DATE	10/16/2008

APPLICATION NO. 489886 (P/O-Change of condition, Previous A/N 448693)

LITHOGRAPHIC PRINTING SYSTEM CONSISTING OF:

1. PRESS, GOSS, MODEL NO. C250, TWO 4-COLOR TOWERS, 36" SHEET WIDTH, WEBFED, 300 HP TOTAL.
2. DRYER, MEGTEC, MODEL NO. C 195, NATURAL GAS-FIRED, 3,000,000 BTU/HR, WITH ONE 5 HP COMBUSTION AIR BLOWER, ONE 60 HP RECIRCULATION BLOWER, AND ONE 5 HP EXHAUST FAN.
3. DRYER, MEGTEC, MODEL NO. C 195, NATURAL GAS-FIRED, 3,000,000 BTU/HR, WITH ONE 5 HP COMBUSTION AIR BLOWER, ONE 60 HP RECIRCULATION BLOWER, AND ONE 5 HP EXHAUST FAN.

HISTORY

Handbill Printers submitted the above permit applications to the AQMD to install a new heat-set lithographic printing press, change permit condition of an existing printing press, and to modify a regenerative thermal oxidizer (RTO) unit to vent the additional new printing press.

The company is a major printing facility in the district where inserts and magazines are printed on both coated and non-coated paper materials. This facility has active permits to operate four heat-set lithographic printing presses and a RTO under I. D. # 061785.

Handbill Printers has a facility-wide VOC emission cap of 2,684 lbs/month. The applicant has not requested any VOC emission increase from the facility under this project. Rules 1130 and 1171 apply to this facility and the above described equipment. The oven on the printing press will be equipped with a burner which emits less than 30 ppmv NOx emissions at 3% O₂. Thus, the printing press will comply with the current BACT requirements. The burner on the RTO will be used for start-up only. There will not be any changes in the combustion emissions from the RTO.

The applicant requested to bubble the natural gas usage of the new press oven with the existing natural gas usage limit of 68,571 cubic feet per day for Goss printing press with P/N F79726. Thus, no NOx or other combustion contaminant offsets are required for the new Harris press. The applicant has submitted A/N 489886 to reflect this permit condition change for the Goss printing press.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	PAGE	3 of 13
ENGINEERING AND COMPLIANCE DIVISION	APP. NUMBERS	487020/1 & 489886
Large Coating, Printing and Chemical Operations Team	PROCESSED BY	SMP
APPLICATION PROCESSING AND CALCULATIONS	REVIEWED BY	
	DATE	10/16/2008

The RTO is capable of handling 12,000 scfm contaminated air. Currently it is controlling 9470 scfm contaminated air from four existing printing presses. Additionally about 600 scfm of contaminated air is expected from the new printing press. However, the total contaminated air will still be below the 12,000 scfm limit. The following table describes the scfm data for all the five presses. The table shows that the RTO is expected to handle the contaminated airflow from all five heat-set presses.

PRESS NAME	OVEN EXHAUST (SCFM)
Existing Goss I	3,540
Existing Didde Excaliber	1,500
Existing Goss II	3,000
Existing Sanden	1,430
Proposed Harris M110B	600
Total Exhaust from All Heat-set Presses	10,070

The RTO was previously source tested on September 14, 2006 by the applicant under a District approved protocol. The results indicated 99.5% collection efficiency and 99.5% destruction efficiency. This complied with the permit conditions and the Rule 1130 requirements.

The District data did not show any notices of violation issued against this facility in the last two years. Also, there were no records of any complaints for visible emissions or odor nuisance in the district database in the last two years. The facility is located within an industrial area. It is not located within 1000 feet from any school and there will not be any emission increases exceeding the threshold levels under project, hence, these applications will not require a public notification per Rule 212.

Handbill Printers is a Title V facility. A Title V renewal permit was issued to this facility on August 13, 2006. This proposed second permit revision is considered a "minor permit revision" to the renewed Title V permit, as described in Regulation XXX evaluation.

PROCESS DESCRIPTION

The applicant operates a typical commercial lithographic printing operation at this site. The equipment will be used to print such items as brochures, annual reports, and advertising.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	PAGE	4 of 13
ENGINEERING AND COMPLIANCE DIVISION	APP. NUMBERS	487020/1 & 489886
Large Coating, Printing and Chemical Operations Team	PROCESSED BY	SMP
APPLICATION PROCESSING AND CALCULATIONS	REVIEWED BY	
	DATE	10/16/2008

In lithographic printing, the image and non-image areas are on the same plane. The image area is made to be oil receptive and water repellent, while the non-image area is made to be water receptive and oil repellent. The fountain solution (normally comprised of water, alcohol or alcohol substitute, and etch) wets the non-image area, while the ink will adhere to the image area. The term offset refers to the fact that the ink is offset from the plate to a rubber blanket, and then from the blanket to the paper. Fountain solutions with a VOC content of less than 8% by volume and roller/blanket washes with less than 100 grams per liter VOC content are used in the printing presses.

The new Harris press is a web-fed, five-color press, with a natural gas-fired oven. The web comes directly from the printing press into the oven, where the inks are cured. The oven will have one Maxon Cyclomax low NOx burner (30 ppmv NOx or less), rated at 1.6 million BTU per hour. This oven is deemed to achieve 99.5% collection efficiency of the VOC driven off in the oven chamber (which will be verified by the source test). The oven exhaust (600 scfm) will be routed to the existing oxidizer with a minimum destruction efficiency of at least 95%.

The oxidizer is a typical regenerative (RTO) type thermal oxidizer, which uses two beds of ceramic heat-recovery material to achieve a thermal efficiency of up to 95%. The oxidation process is meant to be self-sustaining with little or no additional gas required to continue the oxidation process. If the VOC content in the exhaust stream is not sufficiently high to sustain the required temperature, additional natural gas is injected directly to the combustion chamber of the oxidizer to maintain the proper temperature.

The VOC laden air is preheated by one of the two beds that contain the ceramic heat-transfer material. The air then passes through the main combustion chamber where the hydrocarbons are oxidized at a minimum temperature of 1400 °F to carbon dioxide and water (ideally). The heated exhaust then passes through the second ceramic bed, where it transfers its heat to that bed. When the second bed achieves the set-point temperature, the flow is reversed.

OPERATING HOURS

Average: 24 hr/day, 7 day/week, 52 weeks/year
Maximum: 24 hr/day, 7 day/week, 52 weeks/year

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION Large Coating, Printing and Chemical Operations Team APPLICATION PROCESSING AND CALCULATIONS	PAGE	5 of 13
	APP. NUMBERS	487020/1 & 489886
	PROCESSED BY	SMP
	REVIEWED BY	
	DATE	10/16/2008

OXIDIZER DESIGN

Total maximum contaminated process flow rate:	12000 scfm
Design capacity of the control equipment:	12000 scfm
Inlet operating temperature	70 ⁰ F
Outlet operating temperature from combustion chamber	1400 ⁰ F
Heat exchanger efficiency:	95%
Heat Input Rating of the burner for initial heating of the media	3.57 mm BTU/HR
Heat required during the normal working load	nil
Volume of the combustion zone	660 ft ³

Heat required to heat air from 70 °F to 1600 °F(worst case)

$$M = 12000 \text{ scfm} \times 0.075 \text{ lb/scf} \times 60 \text{ min/hr} = 54,000 \text{ lb/hr}$$

$$Cp_{70} = 0.240 \text{ Btu/lb } ^0\text{F} \quad Cp_{1600} = 0.275 \text{ Btu/lb } ^0\text{F}$$

$$Cp_{\text{avg}} = 0.258 \text{ Btu/lb } ^0\text{F}$$

$$Q = MCp \Delta T$$

$$= 54000 \times 0.258 \times (1600 - 70)$$

$$= 21.32 \text{ MM Btu/hr}$$

After 95% heat recovery

$$Q = 21.32 \times 0.05 = 1.066 \text{ MM Btu/hr}$$

Heat input needed: $1.066 \times 1050/615 = 1.82 \text{ mm BTU/HR.}$ (Table D7, Page 948, AP 40.)

This being an RTO, no excess air is necessary for most of the time, the contaminated airflow is sufficient to provide the necessary air. The applicant will use the burner to start-up the RTO only. The natural gas infusion and the VOCs will maintain the temperature in the combustion chamber. The RTO has a burner rated at 3.57×10^6 Btu/hr, which is sufficient to fire-up the RTO, plus a gas injection system of 1.95×10^6 Btu/hr to maintain temperature as necessary during normal operation. A permit condition will require a source test upon completion of the modification, which will verify its design capacity.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION Large Coating, Printing and Chemical Operations Team APPLICATION PROCESSING AND CALCULATIONS	PAGE	6 of 13
	APP. NUMBERS	487020/1 & 489886
	PROCESSED BY	SMP
	REVIEWED BY	
	DATE	10/16/2008

Residence time calculation

Flow rate = 12000 cfm

Flow rate per minute = 12000 cfm / 60 sec/min = 200 cfs

Corrected volume = 200 cfs x 1960/ 530 = 740 cfs (1500 °F to 70 °F)

Combustion zone volume = 660 cubic feet

Residence time = 740 / 660 = 1.12 sec (greater than 0.3 sec recommended - OK)

EMISSION CALCULATIONS

Emissions from the Press Oven

The press oven will be equipped with a Maxon Cyclomax burner with 30 ppm NOx emissions @ 3% O₂. The combustion emissions from this oven are described in the following spread-sheet.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION Large Coating, Printing and Chemical Operations Team APPLICATION PROCESSING AND CALCULATIONS	PAGE	7 of 13
	APP. NUMBERS	487020/1 & 489886
	PROCESSED BY	SMP
	REVIEWED BY	
	DATE	10/16/2008

A/N 487020

NEW HARRIS PRESS

@

	<u>maximum</u>	<u>normal</u>		
<u>hr/dy</u>	24	24	<u>max heat input</u>	1.60E+06 (BTU/hr)
<u>dy/wk</u>	7	7	<u>gross heating value</u>	1050 (BTU/scf)
<u>wk/yr</u>	52	52		
<u>load</u>	100%	100%		

	<u>Emission</u>	<u>MAX</u>	<u>AVE</u>	<u>MAX</u>	<u>30-DAY</u>	<u>MAX</u>	<u>MAX</u>
	<u>Factors</u>	(lb/hr)	(lb/hr)	(lb/dy)	(lb/dy)	(lb/yr)	(ton/yr)
SO ₂ (R1)	0.6	0.001	0.001	0.022	NA	8	0.004
SO ₂ (R2)	0.6	0.001	0.001	0.022	0.022	8	0.004
NO ₂ (R1)	38.7	0.059	0.059	1.415	NA	515	0.258
NO ₂ (R2)	38.7	0.059	0.059	1.415	1.415	515	0.258
CO (R1)	59.25	0.090	0.090	2.167	NA	789	0.394
CO (R2)	59.25	0.090	0.090	2.167	2.167	789	0.394
N ₂ O (R1)	2.2	0.003	0.003	0.080	NA	29	0.015
N ₂ O (R2)	2.2	0.003	0.003	0.080	0.080	29	0.015
PM, PM ₁₀ (R1=R2)	7.5	0.011	0.011	0.274	0.274	100	0.050
CO ₂ (R1=R2)	0.000012	0.000	0.000	0.000	0.000	0	0.000
TOC(R1=R2)	7	0.011	0.011	0.256	0.256	93	0.047
ethyl benzene	0.0095	1.4E-05	1.4E-05	3.5E-04	NA	1.26E-1	6.32E-5
acetaldehyde	0.0043	6.6E-06	6.6E-06	1.6E-04	NA	5.72E-2	2.86E-5
acrolein	0.0027	4.1E-06	4.1E-06	9.9E-05	NA	3.59E-2	1.80E-5
benzene	0.008	1.2E-05	1.2E-05	2.9E-04	NA	1.06E-1	5.32E-5
formaldehyde	0.017	2.6E-05	2.6E-05	6.2E-04	NA	2.26E-1	1.13E-4
naphthalene	0.0003	4.6E-07	4.6E-07	1.1E-05	NA	3.99E-3	2.00E-6
PAH's	0.0001	1.5E-07	1.5E-07	3.7E-06	NA	1.33E-3	6.66E-7
toluene	0.0366	5.6E-05	5.6E-05	1.3E-03	NA	4.87E-1	2.44E-4
xylenes	0.0272	4.1E-05	4.1E-05	9.9E-04	NA	3.62E-1	1.81E-4

NO₂ @ 3% excess O₂----->>> 29.82 (ppmv)
 CO @ 3% excess O₂----->>> 74.98 (ppmv)

SO₂ @ 3% excess O₂----->>> 0.33 (ppmv)
 PM @ 12% CO₂----->>> 5.5E-09 (grain/ft³)

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION Large Coating, Printing and Chemical Operations Team APPLICATION PROCESSING AND CALCULATIONS	PAGE	9 of 13
	APP. NUMBERS	487020/1 & 489886
	PROCESSED BY	SMP
	REVIEWED BY	
	DATE	10/16/2008

Application No. 489886 is for an administrative change only. Thus previous application (# 448693) emission data will be re-entered for this A/N 489886.

RULES/REGULATION EVALUATION

▫ **RULE 212, PUBLIC NOTIFICATION**

▼ **SECTION 212(c)(1):**

This section requires a public notice for all new or modified permit units that may emit air contaminants located within 1,000 feet from the outer boundary of a school. This source is not located within 1,000 feet from the outer boundary of a school. Therefore, public notice will not be required by this section.

▼ **SECTION 212(c)(2):**

This section requires a public notice for all new or modified facilities which have on-site emission increases exceeding any of the daily maximums as specified in subdivision (g). There are no emission increases from this facility as a result of this project. Therefore, this application will not be subject to this section.

▼ **SECTION 212(c)(3):**

Please, see Rule 1401 evaluation section. Public notice is not required by this section. There are no toxic emissions from the materials to be used on the press. The small quantity of toxics from the combustion of natural gas in the press oven results in MICR below 1 in a million.

▼

SECTION 212(g):

This section requires a public notice for all new or modified sources which undergo construction or modifications resulting an emissions increase exceeding any of the daily maximum specified in the table below. As shown in the following table, the emission increases (VOC) from this project are above the daily maximum limits specified by Rule 212(g). Therefore, public notice will be required by this section.

LB/DAY	CO	NOX	PM₁₀	ROG	Lead	SOX
MAX. LIMIT	220	40	30	30	3	60
INCREASES	2	1	0	89	0	0

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION Large Coating, Printing and Chemical Operations Team APPLICATION PROCESSING AND CALCULATIONS	PAGE	10 of 13
	APP. NUMBERS	487020/1 & 489886
	PROCESSED BY	SMP
	REVIEWED BY	
	DATE	10/16/2008

▣ **RULES 401 & 402, VISIBLE EMISSIONS & NUISANCE**

AQMD database has no records of any visible emissions or nuisance violations against this company in the last two years. Visible emissions or odors are not expected.

▣ **RULE 1130, GRAPHIC ARTS**

▼ **SECTION (C)(1), VOC CONTENT OF INKS**

The use of an approved air pollution control system with a sufficient VOC control efficiency (at least 90% collection and 95% destruction) will provide compliance.

▣ **RULE 1130, GRAPHIC ARTS**

▼ **SECTION (C)(2), VOC CONTENT OF FOUNTAIN SOLUTION**

This paragraph limits the maximum VOC content of fountain solution at 80 g/l (=0.67 lb/gal - no chilled fountain). The applicant will be in compliance with these requirements by using fountain solution with the following VOC content.

Materials Mixed	Volume Gal.	VOC Content (lb/gal)	VOC Content Lbs	VOC (lb/gal)	Rule VOC Limit (lb/gal)	Compliance
Platinum Plus	0.78	0.6	0.468			
Water	10	-0-	-0-			
Total	10.78		0.468	0.044	0.67	Yes

▣ **RULE 1171, SOLVENT CLEANING OPERATIONS**

According to MSDS provided by the applicant, clean-up material will comply with the Rule requirements.

Material Used	Rule VOC Limit (gm/liter)	VOC as Applied (gm/liter)	Compliance
Pressroom Solutions Wash 6502	100	96	Yes

REGULATION XIII

▣ **RULE 1303(a), BEST AVAILABLE CONTROL TECHNOLOGY (BACT)**

(a) VOC EMISSIONS

The use of an approved air pollution control system with a sufficient VOC control efficiency (at least 90% collection and 95% destruction), fountain solution with less than 8% VOC by volume, and low VOC blanket and roller washes (<100 g/l) satisfy BACT requirements. See following table for calculation of fountain solution VOC by volume.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION Large Coating, Printing and Chemical Operations Team APPLICATION PROCESSING AND CALCULATIONS	PAGE	11 of 13
	APP. NUMBERS	487020/1 & 489886
	PROCESSED BY	SMP
	REVIEWED BY	
	DATE	10/16/2008

Fountain Solution Mixture

Materials Mixed	Volume Gal	VOC Content (lb/gal)	VOC Content Lbs	VOC Volume gal	VOC Volume Percentage
Platinum Plus	0.78	0.6	0.468	0.065	
Water	10	-0-	-0-	-0-	
Total	10.78		0.468	0.065	0.6

(b) NO_x EMISSIONS

There are no combustion emission increases from the RTO, therefore BACT is not triggered for the RTO. The burner on the new press oven is guaranteed by the manufacturer to have <30 ppmv NO_x emissions @ 3% O₂.. Thus this equipment is expected to comply with these requirements.

▫ **RULE 1303(b)(1), MODELING**

No detailed modeling analysis is required since emissions from the new press oven are <0.20 lb/hr NO_x, <11.0 lb/hr CO, and <1.2 lb/hr PM₁₀.

▫ **RULE 1303 (b)(2), EMISSION OFFSETS**

The new press will be operated under the existing facility VOC cap. NO_x offsets for the new press are not required, since the gas usage for the new press is bubbled with the gas usage limit of press with P/N F79726. Thus, there are no emission increases in VOC or combustion contaminants from this project, therefore no offsets are required.

▫ **RULE 1401, NEW SOURCE REVIEW OF CARCINOGENIC AIR CONTAMINANTS**

As discussed in this evaluation report, this equipment is expected to comply with the rule requirements. There are no toxic air contaminants in any of the materials used in the new printing press, and a condition will be imposed to ensure compliance. The MICR from the combustion of the natural gas in the new press oven is expected to be less than 1 x 10⁻⁶ and HIA &HIC to be below 1. See attached screening risk assessment.

REGULATION XXX

The proposed project is considered as a “minor permit revision” to the current Title V permit for this facility since there is not an emission increase of pollutants subject to Reg. XIII or hazardous air pollutants. Rule 3000(b)(12) defines a “minor permit revision” as any Title V permit revision that does not result in any of the following:

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION Large Coating, Printing and Chemical Operations Team APPLICATION PROCESSING AND CALCULATIONS	PAGE	12 of 13
	APP. NUMBERS	487020/1 & 489886
	PROCESSED BY	SMP
	REVIEWED BY	
	DATE	10/16/2008

- Emission increase of RECLAIM pollutants over the facility starting Allocation plus nontradeable Allocations, or a higher Allocation amount which has previously undergone a significant permit revision process,
- Emission increase in hazardous air pollutants (HAPs) or pollutants subject to Reg. XIII, or
- Installation of a new permit unit or the modification or reconstruction of an existing permit unit subject to a New Source Performance Standard (NSPS) per 40 CFR Part 60 or a National Emission Standard for HAPs per 40 CFR Part 61 or Part 63.

Rule 3003(j) specifies that all proposed Title V permit revisions shall be submitted to EPA for review. This is the second permit revision requested by the facility since the Title V renewal permit was issued on August 13, 2006. This revision will also include the removal of the following equipment.

Application number	Permit to Operate number	Equipment description
199346	D51720	DIDDE 2-COLOR LITHO PRESS, AIR DRY
199347	D51721	DIDDE 4-COLOR LITHO PRESS, AIR DRY
334618	F11376	DIDDE 4-COLOR LITHO PRESS, AIR DRY
334619	F11381	DIDDE 4-COLOR LITHO PRESS, AIR DRY
334620	F11379	DIDDE 6-COLOR LITHO PRESS, AIR DRY
334621	F11377	DIDDE 8-COLOR, LITHO PRESS, AIR DRY
334622	R-F11378	GOSS 16-COLOR LITHO PRESS, AIR DRY
334634	R-F11375	GOSS 16-COLOR LITHO PRESS, AIR DRY
350231	R-F27857	GOSS 8-COLOR LITHO PRESS, AIR DRY
377441	F50949	AFTERBURNER, CATALYTIC
444420		AFTERBURNER, CATALYTIC
460822		Modification - GOSS 12-COLOR, LITHO PRESS, AIR DRY
460824		Modification - GOSS 12-COLOR LITHO PRESS, AIR DRY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING AND COMPLIANCE DIVISION Large Coating, Printing and Chemical Operations Team APPLICATION PROCESSING AND CALCULATIONS	PAGE	13 of 13
	APP. NUMBERS	487020/1 & 489886
	PROCESSED BY	SMP
	REVIEWED BY	
	DATE	10/16/2008

The cumulative emission increases resulting from this proposed permit revision are summarized as follows:

Revision	HAP	VOC	NOx	PM ₁₀	SOx	CO
1 st Permit revision, modification of two printing presses, P/C for A/Ns 460821 and 460822.	0	0	0	0	0	0
2 nd Permit Revision; addition of one press (A/N 487020), modification of afterburner (A/N 487020/1) and administrative change for press (A/N 489886).Removal of equipment as shown in the table above.	0	0	0	0	0	0
Cumulative Total	0	0	0	0	0	2
Maximum Daily	30	30	40	30	60	220

CONCLUSIONS/RECOMMENDATIONS

The proposed project is expected to comply with all applicable District Rules and Regulations. Since the proposed project is considered as a “minor permit revision”, it is exempt from the public participation requirements under Rule 3006 (b). A proposed permit incorporating this permit revision will be submitted to EPA for a 45-day review pursuant to Rule 3003(j). If EPA does not have any objections within the review period, a revised Title V permit (Section D) will be issued to this facility, with Permits to Construct for the new press and modified RTO and Permit to Operate for the existing press with change of condition.



South Coast Air Quality Management District

Form 400-A

Application For Permit To Construct and Permit To Operate

Mail Application To: P.O. Box 4944 Diamond Bar, CA 91765

Tel: (909) 396-3385 www.aqmd.gov

Section A: Operator Information

1. Business Name of Operator To Appear On The Permit: HANDBILL PRINTERS
2. Valid AQMD Facility ID (Available on Permit or Invoice issued by AQMD): 061785
3. Owner's Business Name (only if different from Business Name of Operator):

Section B: Equipment Location Section C: Permit Mailing Address

4. Equipment Location Address: 14321 Corporate Drive, Garden Grove, CA, 92643
5. Permit and Correspondence Information: [X] Check here if same as equipment location address

Section D: Application Type The facility is in [] RECLAIM [X] Title V [] RECLAIM & Title V Program (please check if applicable)

6. Reason for Submitting Application (Select only ONE): [X] New Construction (Permit to Construct)
7. Estimated Start Date of Operation/Construction (MM/DD/YYYY): As soon as Permit issued
8. Description of Equipment: REGENERATIVE THERMAL OXIDIZER, AWS, MODEL NO.: 12.0RTO95, NATURAL GAS, 60 HP FAN

Section E: Facility Business Information

13. What type of business is being conducted at this equipment location? COMMERCIAL LITHOGRAPHIC PRINTER
14. What is your businesses primary NAICS Code (North American Industrial Classification System)? 323110

Section F: Authorization/Signature I hereby certify that all information contained herein and information submitted with this application is true and correct.

17. Signature of Responsible Official: [Signature]
18. Title: PARTNER
19. Print Name: MARK MESSICK
20. Date: August 18, 2008

Check List
[] Form(s) signed and dated by authorized official
[] Supplemental Equipment Form (400-E-XX or 400-E-GEN)
[] CEQA Form (400-CEQA) attached
[] Payment for permit processing fee attached

Table with columns: AQMD USE ONLY, TYPE BCD, EQUIPMENT CATEGORY CODE, FEE SCHEDULE, VALIDATION, CLASS I II IV, ASSIGNMENT Unit, CHECK/MONEY ORDER, AMOUNT, Tracking #

393



South Coast Air Quality Management District

Form 400-A

Application For Permit To Construct and Permit To Operate

Mail Application To: P.O. Box 4944 Diamond Bar, CA 91765

Tel: (909) 396-3385 www.aqmd.gov

Vertical handwritten note on the left margin: "I will have in the next 10 days to OK Per Stage 6. 10/16/08"

Section A: Operator Information

1. Business Name of Operator To Appear On The Permit:

HANDBILL PRINTERS

2. Valid AQMD Facility ID (Available on Permit or Invoice Issued by AQMD): 061785

3. Owner's Business Name (only if different from Business Name of Operator):

Section B: Equipment Location

Section C: Permit Mailing Address

4. Equipment Location Address: For equipment operated at various locations in AQMD's jurisdiction, provide address of initial site

14321 Corporate Drive

Street Address

Garden Grove

City

CA

92643

State

Zip Code

County: Los Angeles Orange San Bernardino Riverside

Contact Name: Paul Engel

Contact Title: Consultant Phone: (714) 473-8036

Fax: (909) 494-4464 E-Mail: PKEPD@aol.com

5. Permit and Correspondence Information:

Check here if same as equipment location address

Street Address

City

CA

State

Zip Code

County: Los Angeles Orange San Bernardino Riverside

Contact Name:

Contact Title:

Phone:

Fax:

E-Mail:

Section D: Application Type

The facility is in RECLAIM Title V RECLAIM & Title V Program (please check if applicable)

6. Reason for Submitting Application (Select only ONE):

- Administrative Change (checked)
New Construction (Permit to Construct)
Equipment Operating Without A Permit or Expired Permit*
Equipment On-Site But Not Constructed or Operational
Title V Application (Initial, Revisions, etc.)
Compliance Plan
Facility Permit Amendment
Registration/Certification
Streamlined Standard Permit

- Permitted Equipment Altered/ Modified Without Permit Approval*
Proposed Alteration/Modification to Permitted Equipment
Change of Condition For Permit To Operate

Change of Condition For Permit To Construct

Change of Location--Moving to New Site

Existing Or Previous Permit/Application Number: F79726

Handwritten number: 448693

* A Higher Permit Processing Fee applies to those items with an asterisk (Rule 301 (c) (1) (D))

7. Estimated Start Date of Operation/Construction (MM/DD/YYYY): As soon as Permit issued

8. Description of Equipment:

LITHOGRAPHIC PRINTING PRESS, GOSS, TWO 4 COLOR TOWERS, 36" WEB-WIDTH, WEB-FED, 300-HP TOTAL MOTOR DRIVE WITH TWO MEGTEC NATURAL GAS-FIRED DRYERS

9. Is this equipment portable AND will it be operated at different locations within SCAQMD jurisdiction? No (checked) Yes

10. For identical equipment how many additional applications are being Submitted with this application? (Form 400-A required by each)

11. Are you a Small Business as per Rule 102 definition? No (checked) Yes

12. Has a Notice of Violation (NOV) or a Notice to Comply (NTC) been issued for this equipment? No (checked) Yes

If yes, provide NOV/NTC #

Section E: Facility Business Information

13. What type of business is being conducted at this equipment location? COMMERCIAL LITHOGRAPHIC PRINTER

14. What is your businesses primary NAICS Code (North American Industrial Classification System)? 323110

15. Are there other facilities in the SCAQMD jurisdiction operated by the same operator? No (checked) Yes

16. Are there any schools (K-12) within a 1000-ft. radius of the equipment physical location? No (checked) Yes

Section F: Authorization/Signature I hereby certify that all information contained herein and information submitted with this application is true and correct.

17. Signature of Responsible Official: [Signature]

18. Title: PARTNER

19. Print Name: MARK MESSICK

20. Date: October 2, 2008

- Check List: Form(s) signed and dated by authorized official, Supplemental Equipment Form (400-E-XX or 400-E-GEN), CEQA Form (400-CEQA) attached, Payment for permit processing fee attached.

Your application will be rejected if any of the above items are missing.

Table with columns: AQMD USE ONLY, TYPE BCD, EQUIPMENT CATEGORY CODE, FEE SCHEDULE, VALIDATION, ASSIGNMENT, CHECK/MONEY ORDER, AMOUNT, Tracking #. Includes handwritten entries like '10/2/08', '14036', '070.50'.