PLANT NAME: Mail Well Envelope Company	FNGINFFDING	APPLICATION NO.: 00635	
STREET ADDRESS: 1021 Cotton Street	ENGINEERING	PLANT NO.:	14279
CITY, STATE, & ZIP: Oakland, CA 94606	EVALUATION	DATE:	30 January 2003
ENGINEER: Sanjeev Kamboj		PAGE NO.:	Page 1 of 7

1.0 BACKGROUND

Mail Well Envelope Company submitted this application for Permit to Operate the following equipment:

- S-2 Halm Jet Litho Press, JP-2
- S-3 Halm Jet Litho Press, JP-2
- S-4 Halm Super Jet, 2 color
- S-5 Halm Super Jet, 2 color
- S-6 Halm Super Jet, 2 color

2.0 EMISSION CALCULATIONS

Table 2-1, Usage and Emission Calculations, summarizes the proposed usage and estimated emission calculations from application of lnk and Solvent for all the presses.

MATERIAL DESCRIPTION	USAGE (gals/yr)	VOC CONTENT (lbs/gal)	POC (lbs/yr)	POC (tpy)
Wash V-120, B010003 (Roller Wash)	700	6.77	4739.00	2.369
ML-F Wetting Solution	56	6.63	371.28	0.185
Sheetfed Offset ink	148.33	0.49	72.68	0.036
TOTALS:			5,182.96	2.590

TABLE 2-1 Usage and Emission Calculations (S1-S6)

Emissions for each press:

S-1: 863.83 lbs/yr; S-2: 863.83 lbs/yr; S-3: 863.83 lbs/yr; S-4: 863.83 lbs/yr; S-5: 863.83 lbs/yr; S-6: 863.83 lbs/yr.

2.1 Average Daily Emissions:

S-1

- POC = (863.83 lbs/yr) / (260 days/yr) = 3.32 lbs/day
- <u>S-2</u>
- POC= (863.83 lbs/yr) / (260 days/yr) = 3.32 lbs/day

PLANT NAME: Mail Well Envelope Company	ENGINEEDING APPLICATION NO.: 00635	APPLICATION NO.: 006355	
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ENGINEER: Sanjeev Kamboj		PAGE NO.:	Page 2 of 7

<u>S-3</u>	
POC=	(863.83 lbs/yr) / (260 days/yr) = 3.32 lbs/day
<u>S-4</u>	
POC=	(863.83 lbs/yr) / (260 days/yr) = 3.32 lbs/day
<u>S-5</u>	
POC =	(863.83 lbs/yr) / (260 days/yr) = 3.32 lbs/day
<u>S-6</u>	
POC =	(863.83 lbs/yr) / (260 days/yr) = 3.32 lbs/day

2.2 Plant Cumulative Increase:

Note: In previous application # 5066 for this plant, POC emissions resulting from all 6 presses were mentioned. Hence, there will be no change in previously reported POC emissions as a result of this project.

2.3 Toxics:

TAC	Material	Weight	(gals/yr)	VOC (lbs/gal)	Emission (lb/yr)	Trigger Limit (lb/yr)
Xylenes	Wash V- 120	.01	700	6.77	47.39	58,000
2-butoxy ethanol	Sheetfed Etch Wetting	.10 .54	56 56	0.7 6.63	3.92 200.49	3,900
Total	Solution				204.41	

PLANT NAME: Mail Well Envelope Company	ENGINEERING APPLICATION NO.: 00635	APPLICATION NO.: 006355	
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CITY, STATE, & ZIP: Oakland, CA 94606	EVALUATION	DATE:	30 January 2003
ENGINEER: Sanjeev Kamboj		PAGE NO.:	Page 3 of 7

As illustrated in Table above, the toxic compound emissions are below its toxic trigger level; therefore, a health risk screening analysis is not required pursuant Regulation 2, Rule 1, Section 316.

3.0 STATEMENTS OF COMPLIANCE

The Presses are subject to and in compliance with District Regulation 8, Rule 20, and Section 302 and Section 309. Regulation 8-20-302 identifies the VOC standards for inks, coatings, and adhesives, while Regulation 8-20-309 identifies the VOC standards for cleaning products. The ink proposed for use by Mail Well Envelope Company is complying (VOC<2.5 lb/gal). In addition, the cleaning products will be complying (VOC < 10 mmHg and VOC<25 mmHg). Review of Material Safety Data Sheets indicate that only complying low VOC inks and low vapor pressure solvents will be used at sources S-1 thru S-6.

The project is considered to be ministerial under the District's CEQA regulation 2-1-311 and therefore is not subject to CEQA review (PHBK Chapter 5). The engineering review for this project requires only the application of standard permit conditions and standard emissions factors and therefore is not discretionary as defined by CEQA.

As illustrated in Section 2.3 above, the toxic compound emissions are below their respective toxic trigger levels for S-1; therefore, a health risk screening analysis is not required pursuant Regulation 2, Rule 1, Section 316.

Best Available Control Technology (BACT), pursuant Reg. 2-2-301, is required for any new source, which emits more than 10 pounds of POC per highest day. Each source's annual average daily emission is calculated to be 3.32 lbs/day; therefore, BACT is not required.

Sources S-1 through S-6 <u>are</u> located within 1,000 feet of the nearest public school (Beacon School) and hence the project to permit these presses is subject to the public notification requirements contained in Regulation 2-1-412.

POC OFFSET requirements are not triggered since facility wide emissions are less than 15 tpy.

PSD, NSPS, and NESHAPS do not apply.

4.0 **PERMIT CONDITIONS**

Conditions for S-1 to S-6 (Halm Jet Litho Presses):

- 1. Usage of ink and cleanup solvent shall not exceed the following limits, in consecutive twelve-month period:
 - a. Sheetfed Offset ink

PLANT NAME: Mail Well Envelope Company	ENGINEEDING	APPLICATIO	N NO.: 006355
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CITY, STATE, & ZIP: Oakland, CA 94606	EVALUATION	DATE:	30 January 2003
ENGINEER: Sanjeev Kamboj		PAGE NO.:	Page 4 of 7

- b. Wash V-120, B010003 (Roller Wash)
- c. ML-F Wetting Solution

d. Sheetfed Etch, Product # 8539

{Basis: Cumulative Increase}

= 700 gallons

- = 56 gallons = 56 gallons
- 2. Material used at S-1 to S-6 shall comply with the following standards:
 - a. The VOC content of any ink shall not exceed 2.5 pounds of VOC per gallon.
 - b. The VOC content of any varnish shall not exceed 2.5 pounds per gallon.
 - c. Any fountain solution used at the offset press shall contain no more than 8 vol. VOC.
 - d. The press and roller washes used at S-1 shall not exceed any of the following:
 - 1. 2.5 pounds of VOC per gallon; or
 - 2. Vapor pressure greater than 10 mm Hg.

e. The metering roller cleaner shall not exceed a vapor pressure of 25 mm Hg. {Basis: BACT}

- 3. Coatings and cleanup solvents other than the materials specified in Condition 1, and/or usages in excess of those specified in Condition 1, may be used at S-1 to S-6, provided that the owner/operator can demonstrate that both the following are satisfied:
 - a. Total POC emissions from sources S-1 to S-6 do not exceed 5,182.96 pounds in any consecutive twelve-month period.
 - b. The usage of these materials does not increase toxic emissions above any risk screening trigger level listed in Table 2-1-316 of Regulation 2-1. {Basis: Cumulative Increase, Toxic Risk Screen}
- 4. To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:
 - a. Type and monthly usage of all POC containing materials used;
 - b. If a material other than those specified in Condition 1 is used or a material specified in Condition 1 is used in excess of the limit in Condition 1, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Condition 3, on a monthly basis;
 - Monthly usage and/or emission calculations shall be totaled for each consecutive twelve-month period.
 (Basis: Cumulative Increase, Toxic Risk Screen)

5.0 EXEMPTIONS:

None

PLANT NAME: Mail Well Envelope Company	ENGINEERING APPLICATION NO.: 00635	APPLICATION NO.: 006355	
STREET ADDRESS: 1021 Cotton Street		PLANT NO.:	14279
CITY, STATE, & ZIP: Oakland, CA 94606	EVALUATION	DATE:	30 January 2003
ENGINEER: Sanjeev Kamboj		PAGE NO.:	Page 5 of 7

6.0 RECOMMENDATION

Issue permit to Operate for the following sources:

- Halm Jet Litho Press, JP-2 Halm Jet Litho Press, JP-2 Halm Super Jet, 2 color Halm Super Jet, 2 color Halm Super Jet, 2 color S-2
- S-3
- S-4
- S-5
- S-6

By:_____ Sanjeev Kamboj Air Quality Engineer

Date: _____

PLANT NAME: Mail Well Envelope Company	ENGINEEDING	APPLICATIO	N NO.: 006355
STREET ADDRESS: 1021 Cotton Street	ENGINEERING	PLANT NO.:	14279
CITY, STATE, & ZIP: Oakland, CA 94606	EVALUATION	DATE:	30 January 2003
ENGINEER: Sanjeev Kamboj		PAGE NO.:	Page 6 of 7

ATTACHMENT A (PUBLIC NOTICE)

PLANT NAME: Mail Well Envelope Company	ENGINEEDING	APPLICATIO	N NO.: 006355
STREET ADDRESS: 1021 Cotton Street	ENGINEERING	PLANT NO.:	14279
CITY, STATE, & ZIP: Oakland, CA 94606	EVALUATION	DATE:	30 January 2003
ENGINEER: Sanjeev Kamboj		PAGE NO.:	Page 7 of 7

ATTACHENT B (COMMENTS & RESPONSES)