



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL
SHELBY COUNTY**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 05-11371

DATE: 4/12/2001

Direct Graphics (Mail-Well, Inc.)
Jeff Raible
P O Box 4009 829 Vandemark Rd
Sidney, OH 453654009

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

SWDO



Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

FINAL PERMIT TO INSTALL 05-11371

Application Number: 05-11371
APS Premise Number: 0575010205
Permit Fee: **\$100**
Name of Facility: Direct Graphics (Mail-Well, Inc.)
Person to Contact: Jeff Raible
Address: P O Box 4009 829 Vandemark Rd
Sidney, OH 453654009

Location of proposed air contaminant source(s) [emissions unit(s)]:
829 Vandemark Rd
Sidney, Ohio

Description of proposed emissions unit(s):
Heidelberg Speedmaster SM102-5P Sheetfed Printing Press.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

Part I - GENERAL TERMS AND CONDITIONS**A. Permit to Install General Terms and Conditions****1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

Direct Graphics (Mail-Well, Inc.)

PTI Application: 05-11371

Issued: 4/12/2001

Facility ID: 0575010205

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
OC	7.3

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R008 - Heidelberg Speedmaster SM102-5P Sheetfed Printing Press	OAC rule 3745-31-05(A)(3)	7.3 tons organic compounds (OC) per year. The requirements established pursuant to this rule are equivalent to the requirements of OAC rule 3745-21-07(G)(2).
	OAC rule 3745-21-07(G)(2)	8.0 pounds OC per hour; 40.0 pounds OC per day.

2. Additional Terms and Conditions

- 2.a None

B. Operational Restrictions

- 1. The ink usage for this emissions unit shall not exceed 35.0 pounds per hour, 350.0 pounds per day, and 50.0 tons per year.
- 2. The OC content of the inks employed in this emissions unit shall not exceed 21.3 percent by weight.
- 3. The OC emissions from the fountain solution employed in this emissions unit shall not exceed 6.1 pounds per day and 1.6 tons per year.
- 4. The OC emissions from the liquid organic cleanup materials employed in this emissions unit shall

not exceed 30.2 pounds per day and 5.2 tons per year.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each day for the coating operation:
 - a. The company identification for each ink, fountain solution and cleanup material employed.
 - b. The number of gallons of each ink, fountain solution and cleanup material employed.
 - c. The organic compound content of each ink, fountain solution and cleanup material, in pounds per gallon.
 - d. The total organic compound emission rate for all ink, fountain solution and cleanup materials, in pounds per day.
 - * Pursuant to Ohio EPA Engineering Guide No.68, the following assumptions will be used in calculating the actual OC emissions for this emissions unit:

95% of the ink/varnish solvent is retained in the web and the remaining 5% is released to the atmosphere;

100% of the fountain solution solvent is released to the atmosphere;

for any cleanup material with a vapor pressure less than 10 mm Hg at 20 degrees Celsius, which is applied with shop towels, and the towels are stored within a closed container, 50% of the solvent in the cleanup material is retained within the towel and the remaining 50% is released to the atmosphere - otherwise, 100% of the solvent in the cleanup material is released to the atmosphere.
 - e. The total number of hours the emissions unit was in operation.
 - f. The average hourly organic compound emission rate for all ink, fountain solution and cleanup materials, i.e., (d)/(e), in pounds per hour (average).

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports which include the following information:
 - a. An identification of each day during which the average hourly organic compound emissions from the ink, fountain solution and cleanup materials exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day.
 - b. An identification of each day during which the organic compound emissions from the ink, fountain solution and materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

These reports shall be submitted by the due dates specified in Part I.- General Terms and Conditions (A)(2)(b).

E. Testing Requirements

1. Compliance with the emission limitation in Section II.A.1. of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation -

8 lbs OC/hr

Applicable Compliance Method -

Compliance shall be determined by the following equation:

- IU - Ink usage, gallons per day;
- IC - Organic content of ink employed (percent by weight);
- FS - Fountain solution usage, gallons per day;
- FC - Organic content of fountain solution employed (percent by weight);
- CU- Cleanup material, gallons per day;
- CC - Organic content of cleanup material employed (percent by weight);
- HR - Total number of hours the emissions unit was in operation;
- E - Average emission rate, in pounds per hour

$$E = (IU)(IC)(0.05 \text{ OC loss } *) + (FS)(FC) + (CU)(CC) / (HR)$$

Direct Graphics (Mail-Well, Inc.)

PTI Application: 05 11271

Issued

Facility ID: 0575010205

Emissions Unit ID: R008

- b. Emission Limitation -

40 tons OC/day

Applicable Compliance Method -

Compliance shall be determined by the following equation:

- IU - Ink usage, gallons per day;
- IC - Organic content of ink employed;
- FS - Fountain solution usage, gallons per day;
- FC - Organic content of fountain solution employed (percent by weight);
- CU- Cleanup material, gallons per day;
- CC - Organic content of cleanup material employed;
- E - Organic compound emissions rate, in pounds per day

$$E = (IU)(IC)(0.05 \text{ OC loss } *) + (FS)(FC) + (CU)(CC)$$

- c. Emission Limitation -

7.3 tons OC/year

Applicable Compliance Method -

The total annual organic compound emission rate shall be the sum of the result from (b) for the calendar year, divided by 2,000 pounds per ton.

2. Formulation data or USEPA Method 24A shall be used to determine the organic compound contents of the inks, fountain solutions and cleanup materials.

F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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Direct

PTI A

Issued: 4/12/2001

Emissions Unit ID: **R008**

NEW SOURCE REVIEW FORM B

PTI Number: 05-11371 Facility ID: 0575010205

FACILITY NAME Direct Graphics (Mail-Well, Inc.)

FACILITY DESCRIPTION Heidelberg Speedmaster SM102-5P CITY/TWP Sidney
Sheetfed Printing Press

SIC CODE 2752 SCC CODE 3-60-001-01 EMISSIONS UNIT ID R008

EMISSIONS UNIT DESCRIPTION Heidelberg Speedmaster SM102-5P Sheetfed Printing Press

DATE INSTALLED April 15, 2001

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds		8/40	7.3	8/40	7.3
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Coating usage and organic content limitations

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES X NOIDENTIFY THE AIR CONTAMINANTS: Organic compounds

NEW SOURCE REVIEW FORM B

PTI Number: 05-11371 Facility ID: 0575010205

FACILITY NAME Direct Graphics (Mail-Well, Inc.)

FACILITY DESCRIPTION	Heidelberg Speedmaster SM102-5P Sheetfed Printing Press	CITY/TWP	Sidney
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Ohio EPA Permit to Install Information Form Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to **airpti@epa.state.oh.us**

Please fill out the following. If the checkbox does not work, replace it with an 'X'

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input type="checkbox"/>	0000000c.wpd	<input type="checkbox"/>	
<u>Modeling form/results</u>	<input type="checkbox"/>	0000000s.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input type="checkbox"/>

* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

Direct Graphics (Mail-Well Services, Inc.) submitted a PTI application on January 11, 2001 for a 5-color offset sheetfed printing press. The proposed installation date is April 15, 2001. The company included proposed terms and conditions which were included in the development of the permit. The emissions unit employs liquid organic materials (e.g. inks, fountain solutions, and cleanup materials) which limits emissions to 8 lbs/hr, 40 lbs/day as defined in OAC 3745-21-07 (G)(2).

All coating components contain PRM, except for two brands of the cleanup materials. The company has agreed to an inclusive organic compound emissions limit which would restrict both PRM and non-PRM to the 8/40 limit.

No Air Toxic modeling was completed for this source. This decision was based upon review of coating usage rates employed at similar printing presses located at the facility.

FEE-

PWR:0-1000 lbs/hr = \$200

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

Synthetic Minor Determination and/or Netting Determination
Permit To Install ENTER PTI NUMBER HERE

A. Source Description

B. Facility Emissions and Attainment Status

C. Source Emissions

NEW SOURCE REVIEW FORM B

PTI Number: 05-11371 Facility ID: 0575010205

FACILITY NAME Direct Graphics (Mail-Well, Inc.)

FACILITY DESCRIPTION Heidelberg Speedmaster SM102-5P CITY/TWP Sidney
Sheetfed Printing Press

D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

**SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

Pollutant

Tons Per Year

OC

7.3

NEW SOURCE REVIEW FORM B

PTI Number: 05-11371 Facility ID: 0575010205

FACILITY NAME Direct Graphics (Mail-Well, Inc.)

FACILITY DESCRIPTION	Heidelberg Speedmaster SM102-5P	CITY/TWP	Sidney
	Sheetfed Printing Press		
