



State of Ohio Environmental Protection Agency

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RE: FINAL PERMIT TO INSTALL MODIFICATION

CERTIFIED MAIL

CUYAHOGA COUNTY

Application No: 13-04335

Fac ID: 1318006552

DATE: 2/5/2008

Day-Glo Color Corp.
Rick Thornton
4515 St. Clair Ave.
Cleveland, OH 44103

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

CLAA

**FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 13-04335**

Application Number: 13-04335
Facility ID: 1318006552
Permit Fee: **\$2000**
Name of Facility: Day-Glo Color Corp.
Person to Contact: Rick Thornton
Address: 4515 St. Clair Ave.
Cleveland, OH 44103

Location of proposed air contaminant source(s) [emissions unit(s)]:
4515 St. Clair Ave.
Cleveland, Ohio

Description of proposed emissions unit(s):
Administrative modification to separate P007, six pigment curing ovens, into six emissions units - P007, P031, P032, P033, P034, P035.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

Part I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to

the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. 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 or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. 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 any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

10. Permit-To-Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 ninety (90) days after commencing operation of the source(s) covered by this permit.

11. 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.

12. 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.

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13. Permit-To-Install

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

B. State Only Enforceable Permit-To-Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable 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 state-only required 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 (i.e., postmarked) quarterly, 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. 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.

4. Authorization To Install or Modify

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit 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.

5. Construction of New Sources(s)

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. 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 this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit 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.

6. 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.

7. 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).

8. Construction Compliance Certification

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) that the facility has been constructed in accordance with the permit-to-install application and the terms and conditions of the permit-to-install.

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The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

C. 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	14.8
PE	* 34.17
Single HAP	9.7 (total facility)
Combined HAPs	24.7 (total facility)

*** Note: the total particulate emissions for this project represents an increase of 4.38 tpy for P024 since the allowable limits for P007, P014, and P015 have not increased from the Title V permit.**

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

1. Beginning no later than January 1, 2006, the emissions of hazardous air pollutants (HAPs), as defined in Section 112(b) of Title III of the Clean Air Act, from all the emissions units at this facility, shall not exceed 9.7 TPY for any individual HAP, as a rolling, 12-month summation, and 24.7 TPY for any combination of HAPs, as a rolling, 12-month summation.
2. Beginning no later than January 1, 2005, the permittee shall use calculation methodologies to estimate HAP emissions for this facility. The following calculations shall be performed monthly:
 - a. The HAP emissions from each of non-insignificant emissions units P007, and P024 shall be calculated as follows:

$\text{lb product/day} * \text{lb HAP emitted/lb product (from the latest emissions test for the worst case product)} * \text{days of operation/month} * \text{ton/2000 lb} = \text{tons of HAP (formaldehyde)/month}$

The HAP emission factor will be determined by source testing. Until the results of the formal source testing required by this permit are available, interim values from the most recent diagnostic testing shall be used.
 - b. The HAP emissions for other emissions units at this facility (see Term A.7 for a current list of emissions units) shall be calculated in accordance with the facility terms and contained in Part II of the Title V permit.
3. Beginning no later than January 1, 2005, the permittee shall keep records for each month of the following information:
 - a. Diagnostic and compliance emission test data (including HAP emission factors) and the hours of operation for emissions units (P007, P024).
4. Beginning no later than January 1, 2005, the permittee shall keep monthly records for the entire facility of the following information:
 - a. The total facility-wide emissions (and associated calculations) for each individual HAP, in pounds or tons per year (calculated by summing the individual HAP emission rates from all the emissions units at the facility; see Term A.7 for a current list of emissions units).

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- b. The total facility-wide emissions (and associated calculations) for all combined HAPs, in pounds or tons per year (calculated by summing all the HAPs emission rates from all the emissions units at the facility; see Term A.7 for a current list of emissions units).
 - c. The rolling, 12-month summation of the total individual HAP emissions rates for each HAP from all the emissions units at the facility (see Term A.7 for a current list of emissions units), in tons.
 - d. The rolling, 12-month summation of the total combined HAPs emissions rates from all the emissions units at the facility (see Term A.7 for a current list of emissions units), in tons.
5. Beginning no later than January 1, 2006, the permittee shall submit quarterly deviation (excursion) reports, in accordance with the General Terms and Conditions of this permit, of the following information:
 - a. An identification of each month during which the rolling 12-month emissions rate (from the facility) for an individual HAP exceeded 9.7 tons, and the actual rolling, 12-month summation of each individual HAP emissions rate (from the facility; see Term A.7 for a current list of emissions units) for each such month.
 - b. An identification of each month during which the rolling, 12-month emissions rate (from the facility) for combined HAPs exceeded 24.7 tons, and the actual rolling, 12-month summation of the combined HAPs emissions rates (from the facility; see Term A.7 for a current list of emissions units) for each such month.
6. Beginning no later than January 31, 2006, the permittee shall submit annual reports that summarize the annual emissions of each individual HAP and the combined emissions of all the HAPs for the facility (see Term A.7 for a current list of emissions units). These reports shall cover the previous calendar year and shall be submitted by January 31 of each year.
7. Current Emissions Units at this facility that emit HAPs include P001, P003, P007, P008, P009, P021, P022, P024, P031, P032, P033, P034, P035, T043, T044, N001, and any future emissions units.

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
<p>P007 - pigment curing oven no. 1 directly vented to a venturi scrubber and a tray tower scrubber, in series.</p>	<p>OAC rule 3745-31-05(A)(3)</p>	<p>1.2 lb PE/hr and 5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035</p> <p>See A.1.2.a below.</p>
<p>Modified</p> <p>(Terms in this permit will supersede those identified in PTI 13-01058 issued final on 10/6/1983 for emissions unit P007.)</p>	<p>OAC rule 3745-17-07(A)(1)</p>	<p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), .</p> <p>Visible particulate emissions (PE) from the tray tower scrubber stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.</p>
<p>(Terms in this permit will supersede those identified in PTI 13-04335 issued final on 10/12/2004 for emissions unit P007.)</p>	<p>OAC rule 3745-17-11(B)(1)</p>	<p>The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).</p>
	<p>OAC rule 3745-21-07(G)(1)</p>	<p>The emission limitation established by this rule is less stringent than the emission limitation established</p>

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Emissions Unit ID: P007

pursuant to OAC Rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a** The emissions of OC from the six curing ovens, combined, shall not exceed 7.5 tons per year, based upon a rolling, 12-month summation of the monthly emissions. The six curing ovens at Day-Glo Color Corporation are P007, P031, P032, P033, P034, and P035. This emission limitation is more stringent than the emission limitation established pursuant to OAC Rule 3745-21-07(G)(1).

II. Operational Restrictions

1. The pressure drop across the venturi scrubber shall be maintained at a minimum of 7 inches of water column when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pressure drop based upon the operation of the scrubber during the emission test.
2. The scrubber liquor recirculation rate for the venturi scrubber shall be continuously maintained at a value of not less than 70 gallons per minute at all times while the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
3. The rate of recirculation of the scrubber liquor to the tray tower scrubber shall be maintained at a value of not less than 10 gallons per minute (gpm) at all times while the emissions unit is in operation. After each round of emissions testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
4. The pH of the scrubber liquor in the tray tower scrubber shall be maintained at a value of not less than 10.0 when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pH value for the scrubber liquor based upon the operation of the scrubbers during the emission test.
5. This emissions unit shall be maintained under negative pressure when in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the venturi scrubber, as well as the scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pressure drop across the scrubber, in inches of water column, twice per shift (not less than 4 hours apart);
 - b. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - c. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
2. The permittee shall properly operate and maintain equipment to continuously monitor the tray tower scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
3. The permittee shall properly operate and maintain equipment to continuously monitor the pH of the tray tower scrubber liquor, while the emissions unit is in operation. The pH monitor shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pH of the scrubber liquor, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
4. The permittee shall collect and record the following information each day for emissions units P007, P031, P032, P033, P034, and P035 :

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Emissions Unit ID: P007

- a. the name and identification of each product produced;
- b. the total amount of product produced, in pounds; and
- c. the amount of OC emissions for all six curing ovens, calculated using the following equation:

$$(0.0032777 \text{ lbs OC/lbs product}) \times (\text{total lbs product/day}) = \text{lbs OC emissions/day}$$

(The above emission factor was determined from stack testing for a worst case product. This stack test was performed in October of 2007. The emission factor was also confirmed with a stack test performed in October of 2006.)

5. The permittee shall collect and record the following information each month for emissions units P007, P031, P032, P033, P034, and P035:
 - a. the amount of OC emissions, in tons (\sum 4.c./2,000); and
 - b. the rolling, 12-month summation of OC emissions, in tons.
6. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the scrubber stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

The permittee may reduce the frequency of visual observations from daily to weekly for this emissions unit if the following conditions are met:

- a. for 1 full quarter the facility's visual observations indicate no visible emissions; and
- b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to readings of daily if any visible emissions are observed.

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Emissions Unit ID: P007

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following venturi scrubber parameters were not maintained within the required levels:
 - a. the static pressure drop across the scrubber; and
 - b. the scrubber liquor recirculation flow rate.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following tray tower scrubber parameters were not maintained within the required levels:
 - a. the scrubber liquor recirculation flow rate; and
 - b. the pH of the scrubber liquor.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission limitation for OC. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
4. The permittee shall submit quarterly deviation reports that identify each day during which the emissions unit was in operation and the capture (collection) system and/or control device were not in operation.
5. The quarterly deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the wet scrubber serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the following emission limitation(s) in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
1.2 pounds PE per hour combined for P007, P031, P032, P033, P034, and P035

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Emissions Unit ID: P007

Applicable Compliance Method:

If required, compliance with the mass emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03(B).

- 1.b Emission Limitation:
20% opacity as a 6-minute average (stack)

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.c Emission Limitation:
5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.

- 1.d Emission Limitation:
7.5 tpy OC per rolling, 12-month period, for the list of emissions units in A.I.2.a

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping requirements specified in A.III.4 and A.III.5.

VI. Miscellaneous Requirements

None.

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Facility ID: 1318006552
Emissions Unit ID: P007

B. State Only Enforceable Section

I. 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>
P007 - pigment curing oven no. 1 directly vented to a venturi scrubber and a tray tower scrubber, in series.		

2. **Additional Terms and Conditions**

None

II. Operational Restrictions

1. The permittee shall follow the Ohio EPA-approved (March 28, 1991 letter from Mr. Thomas Rigo) operator training program for the proper operation and maintenance of the control equipment, as described in the March 28, 1991 Director's Final Findings & Orders, or such alternative program approved by the Cleveland Division of Air Quality that is consistent with the Final Findings & Orders.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

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Facility ID: 1318006552

Emissions Unit ID: P014

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the bin vent filters serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

Notwithstanding the frequency of reporting requirements specified below, the permittee may reduce the frequency of visual observations from daily to weekly for this emissions unit if the following conditions are met:

- a. for one (1) full quarter the facility's visual observations indicate no visible emissions; and
- b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible emissions are observed.

2. The permittee shall keep records of annual production.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the bin vents serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
20% opacity as a 6-minute average (stack)

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Applicable Compliance Method:

If required, compliance shall be determined through the visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:
2.7 pounds per hour of particulate emissions

Applicable Compliance Method:

If required, compliance with this emissions limitation shall be determined through emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-10(B)(10).

- c. Emission Limitation:
11.83 tons per year of particulate emissions

Applicable Compliance Method:

Compliance with the annual emission limitation listed in section A.I.1 shall be determined by multiplying the annual production rate by the company-supplied emission factor of 0.04 pound of PE per ton of production (4% loss of product at the grinder) and an estimated control efficiency for passive filtration as follows:

$(\text{tons production/year}) \times (0.04 \text{ lb of PE/ton production}) \times (1-0.98) \times (0.0005) =$
tons PE/year

VI. Miscellaneous Requirements

None.

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Emissions Unit ID: P014

B. State Only Enforceable Section

I. 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>
P014 - Plant #2 Coarse Pigment Grinding System	Director's Final Findings & Orders dated 3/28/1991 and with no expiration date	See B.I.2.a See B.II.1.

2. **Additional Terms and Conditions**

- 2.a The permittee shall emit no air contaminant or combination of air contaminants in such manner or amounts as to endanger the health, safety, or welfare of the public, or cause unreasonable injury or damage to property, as specified in OAC rule 3745-15-07.

II. Operational Restrictions

1. The permittee shall follow the Ohio EPA-approved (March 28, 1992 letter from MR. Thomas Rigo) operator training program for the proper operation and maintenance of the control equipment, as described in the above-referenced Director's Final Findings & Orders, or such alternative program approved by the Cleveland Division of Air Quality that is consistent with the Final Findings & Orders.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

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Emissions Unit ID: P014

VI. Miscellaneous Requirements

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P015 - Plant #2 Fine Grinding System Terms in this permit supercede those in the Title V permit issued on 1/23/2004 for emissions unit P015.	OAC rule 3745-31-05(A)(1)	Particulate emissions from this unit shall not exceed 2.9 lbs/hr and 12.7 tons PE/year.
	OAC rule 3745-17-11(B)(1)	The requirements of this rule includes compliance with OAC rule 3745-17-07(A)(1), 3745-17-07(B)(1), and 3745-17-08(B).
	OAC rule 3745-17-08(B)	The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	See A.I.2.a below.
	OAC rule 3745-17-07(B)(1)	Visible particulate emissions (PE) from the wet collector stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust from this emissions unit shall not exceed 20% opacity as a 3-minute average.

2. Additional Terms and Conditions

- 2.a The permittee shall minimize or eliminate visible fugitive particulate emissions through the employment of reasonably available control measures in order to

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prevent the fugitive dust from becoming airborne. These measures shall include, but not be limited to, the following:

- i. the installation and use of hoods, fans, and other equipment to adequately enclose, contain, capture, and vent the fugitive dust; and
- ii. collection efficiencies that are sufficient to minimize or eliminate visible emissions of fugitive dust at the points of capture to the extent possible with good engineering design.

2.b All of the equipment comprising this emissions unit shall be vented to the wet scrubber.

II. Operational Restrictions

1. The pressure drop across the Tri-Mer wet scrubber shall be maintained at a minimum of 7 inches of water column while the emissions unit is in operation.
2. The scrubber make up water flow rate shall be maintained at not less than 0.5 gallon per minute at all times while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the static pressure drop across the Tri-Mer Whirl Wet scrubber, as well as the make up water flow rate while the emissions unit is in operation. The monitoring devices shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manual.

The permittee shall collect and record the following information each day:

- a. The pressure drop across the scrubber, in inches of water column, on a twice-per-shift basis (not less than 4 hours apart);
 - b. The make up water flow rate, in gallons per minute, on a twice-per-shift basis (not less than 4 hours apart); and
 - c. The down times for the capture (collection) system, control device, and monitoring equipment when the associate emissions unit was in operation.
2. The permittee shall perform daily checks, when the emissions unit is in operation, for any visible emissions of fugitive dust from this emissions unit. The presence or absence of any emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

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- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal emissions.

Notwithstanding the frequency of reporting requirements specified below, the permittee may reduce the frequency of visual observation from daily to weekly for this emissions unit if the following conditions are met:

- a. for 1 full quarter the facility's visual observations indicate no visible emissions; and
- b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to readings of daily if any visible emissions are observed.

3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the wet scrubber serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

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Notwithstanding the frequency of reporting requirements specified below, the permittee may reduce the frequency of visual observations from daily to weekly for this emissions unit if the following conditions are met:

- a. for 1 full quarter the facility's visual observations indicate no visible emissions; and
- b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to readings of daily if any visible emissions are observed.

4. The permittee shall keep records of annual production.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each day during which the following scrubber parameters were not maintained at the required levels:
 - a. the scrubber make up water flow rate; and
 - b. the pressure drop across the scrubber.
2. The permittee shall submit quarterly deviation (excursion) reports that identify each day during which the emissions unit was in operation and the capture (collection) system and/or control device were not in operation.
3. The quarterly deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the wet scrubber serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Cleveland Division of Air Quality) by January 31 and July 31 of each year and shall cover the previous 6-month period.
5. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Cleveland Division of Air Quality) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. Testing Requirements

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

- a. Emission Limitation:
20% opacity as a 6-minute average (stack)

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:
20% opacity as a 3-minute average (fugitive)

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9. For purposes of verifying compliance with this limitation, visible emission observations shall be performed at all non-stack egress points (e.g., windows, doors, roof monitors) serving this emissions unit.

- c. Emission Limitation:
2.9 pounds per hour of particulate emissions

Applicable Compliance Method:

If required, compliance with this emissions limitation shall be determined through emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-10(B)(10).

- d. Emission Limitation:
12.7 tons per year of particulate emissions

Applicable Compliance Method:

Compliance with the annual emission limitation listed in section A.I.1 shall be determined by multiplying the annual production rate by the company-supplied emission factor of 0.04 pound of PE per ton of production (4% loss of product at the grinder) and an estimated control efficiency for passive filtration as follows:

$(\text{tons production/year}) \times (0.04 \text{ lb of PE/ton production}) \times (1-0.98) \times (0.0005) =$
tons PE/year

VI. Miscellaneous Requirements

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None.

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B. State Only Enforceable Section

I. 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>
P015 - Plant #2 Fine Grinding System	Director's Final Findings & Orders dated 3/28/91 and with no expiration date	See B.1.2.a. See B.II.1.

2. **Additional Terms and Conditions**

- 2.a The permittee shall emit no air contaminant or combination of air contaminants in such manner or amounts as to endanger the health, safety, or welfare of the public, or cause unreasonable injury or damage to property, as specified in OAC rule 3745-15-07.

II. Operational Restrictions

1. The permittee shall follow the Ohio EPA-approved (March 28, 1991 letter from Mr. Thomas Rigo) operator training program for the proper operation and maintenance of the control equipment, as described in the above-referenced Director's Final Findings & Orders, or such alternative program approved by the Cleveland Division of Air Quality that is consistent with the Final Findings & Orders.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

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Emissions Unit ID: P015

VI. Miscellaneous Requirements

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P024 - pigment kettle no. 3	OAC rule 3745-31-05(A)(3)	<p>Particulate emissions (PE) from this emissions unit shall not exceed 1 lb/hr and 4.38 tpy.</p> <p>Organic compounds (OC) from this emissions unit shall not exceed 3.0 lbs/hour and 7.3 ton/year.</p> <p>The requirements of this rule include compliance with the requirements of OAC rule 3745-17-07(A)(1), and the lb/day limit from OAC rule 3745-21-07(G)(2).</p>
	OAC rule 3745-17-11(B)(1)	<p>The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).</p>
	OAC rule 3745-17-07(A)(1)	<p>Visible particulate emissions (PE) from the scrubber stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.</p>
	OAC rule 3745-21-07(G)(2)	<p>The lb/hr emission limitation established by this rule is less stringent than the lb/hr emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).</p>

The permittee shall not emit more than 40 lbs OC/day, unless such emissions have been reduced by at least 85%, by weight.

2. Additional Terms and Conditions

- 2.a** The OC emissions and PE from all the equipment comprising this emissions unit shall be vented to the fluidized bed scrubber.

II. Operational Restrictions

1. The pressure drop across the fluidized bed scrubber shall be maintained at a minimum of 6 inches of water column when the emissions unit is in operation. After each round of emissions testing which demonstrate that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new pressure drop range based upon the operation of the scrubber during that emissions test.
2. The scrubber liquor recirculation rate for the fluidized bed scrubber shall be maintained at a minimum of 200 gallons per minute. After each round of emissions testing which demonstrate that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new minimum pressure drop range based upon the operation of the scrubber during that emissions test.
3. The pH of the scrubber liquor in the fluidized bed scrubber, when the emissions unit is in operation, shall be maintained at a minimum of 8.5. After each round of emissions testing which demonstrate that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new minimum pH value of the scrubber liquor based upon the operation of the scrubbers during that emissions test.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to monitor the static pressure drop across the fluidized bed scrubber, as well as the scrubber liquor recirculation rate, while the emissions unit is in operation. The monitoring devices and any recorders shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pressure drop across the fluidized bed scrubber, in inches of water column, twice per shift (not less than 4 hours apart);

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- b. the scrubber liquor recirculation rate to the scrubber, in gallons per minute, twice per shift (not less than 4 hours apart);
 - c. the pH; and
 - d. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
2. The permittee shall collect and record the following information each day for this emissions unit to calculate the average OC emitted in lbs/hour in accordance with section A.V.1.d:
 - a. the name and identification of each product produced;
 - b. the pounds of each product produced per batch;
 - c. the total OC emissions for all product batches produced, in pounds;
 - d. the number of hours of operation; and
 - e. the average hourly OC emissions rate in pounds per hour.
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the fluidized bed scrubber serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

Notwithstanding the frequency of reporting requirements specified below, the permittee may reduce the frequency of visual observations from daily to weekly for this emissions unit if the following conditions are met:

- a. for 1 full quarter the facility's visual observations indicate no visible emissions; and
- b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to readings of daily if any visible emissions are observed.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following fluidized bed scrubber parameters did not comply with the requirements specified above:
 - a. the pressure drop across the scrubber;
 - b. the scrubbing liquor recirculation rate to the scrubber; and
 - c. the pH.
2. The permittee shall submit quarterly deviation (excursion) reports that identify each day during which the average lbs OC/hour emissions rates (calculated from records maintained by A.III.3 above) did not comply with the OC limitation specified above.
3. The permittee shall submit quarterly deviation (excursion) reports that identify each day during which the emissions unit was in operation and the capture (collection) system and/or control device were not in operation.
4. The quarterly deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
5. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the fluidized bed scrubber serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the emissions limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
1.0 pound PE per hour

Applicable Compliance Method:
If required, compliance with the mass emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 5 and the procedures specified in OAC rule 3745-17-03(B).
 - 1.b Emission Limitation:
20% opacity as a 6-minute average (stack)

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Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.c Emission Limitation:
3.0 pound OC/hour

Applicable Compliance Method:

The pounds OC per hour may be calculated from records required in Section A.III.3 by using the following formula:

$$(\text{lbs product/day})(\text{lb OC emitted/lb product [from the latest emissions test for the worst case product]}) / (\text{hours of operation/day}) = \text{lbs OC emitted/hour}$$

During the July 2004 OC emissions test for P009 an emission rate of 0.0040 lb OC/lb of product was documented.

If required, emissions testing shall be performed in accordance with OAC rule 3745-21-10(C).

- 1.d Emission Limitation:
7.3 ton OC/year

Applicable Compliance Method:

The pounds OC per year may be calculated from records required in Section A.III.3 by using the following formula:

$$(\text{lbs product/year})(\text{lb OC emitted/lb product [from the latest emissions testing for the worst case product]}) = \text{lbs OC emitted/year}$$

An emission factor of 0.0040 lb OC emitted per lb product was developed by Day-Glo and their consultants, based on a weighted average of the three major ingredients in the pigment resin being produced in this emissions unit, from the July 2004 emissions test for P009 which is a similar emissions unit.

- 1.e Emission Limitation:
4.38 ton PE/year

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.

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2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements.
 - a. The emissions testing shall be conducted within 8 months after beginning operation of this emissions unit.
 - b. The initial round of emission testing shall be conducted on the outlet of the fluidized bed scrubber to demonstrate the OC emission rate (in lbs/hour and lb/lb product) from the packed tower scrubber stack for the worst case product, to determine the actual PE rate in lbs/hour from the fluidized bed scrubber, and to establish proper operating values for the pressure drops, pH, and the scrubber recirculation rates (in gpm) for the fluidized bed scrubber. Also during the first round of testing, the permittee shall speciate the organic compounds during the test .
 - c. The following test methods shall be employed: 40 CFR Part 60, Appendix A, Method 316 for formaldehyde, Method 25 for OC, Method 18 to speciate OC, Method 5 for PE, as appropriate. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The tests shall be conducted while this emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland Division of Air Quality.
 - e. Personnel from the Cleveland Division of Air Quality shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland Division of Air Quality within 30 days following the completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland Division of Air Quality.

VI. 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

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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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B. State Only Enforceable Section

I. 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>
P024 - pigment kettle no. 3	OAC rule 3745-31-05	LIMIT(s)

2. **Additional Terms and Conditions**

- 2.a None.

II. Operational Restrictions

None.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
<p>P031 - pigment curing oven no. 2 directly vented to a venturi scrubber and a tray tower scrubber, in series.</p>	<p>OAC rule 3745-31-05(A)(3)</p>	<p>1.2 lb PE/hr and 5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035</p> <p>See A.I.2.a below.</p>
<p>Modified</p> <p>(Terms in this permit will supersede those identified in PTI 13-01058 issued final on 10/6/1983 for emissions unit P007.)</p>	<p>OAC rule 3745-17-07(A)(1)</p>	<p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).</p> <p>Visible particulate emissions (PE) from the tray tower scrubber stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.</p>
<p>(Terms in this permit will supersede those identified in PTI 13-04335 issued final on 10/12/2004 for emissions unit P007.)</p>	<p>OAC rule 3745-17-11(B)(1)</p>	<p>The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).</p>
	<p>OAC rule 3745-21-07(G)(1)</p>	<p>The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).</p>

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Emissions Unit ID: P031

2. Additional Terms and Conditions

- 2.a** The emissions of OC from the six curing ovens, combined, shall not exceed 7.5 tons per year, based upon a rolling, 12-month summation of the monthly emissions. The six curing ovens at Day-Glo Color Corporation are P007, P031, P032, P033, P034, and P035. This emission limitation is more stringent than the emission limitation established pursuant to OAC Rule 3745-21-07(G)(1).

II. Operational Restrictions

1. The pressure drop across the venturi scrubber shall be maintained at a minimum of 7 inches of water column when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pressure drop based upon the operation of the scrubber during the emission test.
2. The scrubber liquor recirculation rate for the venturi scrubber shall be continuously maintained at a value of not less than 70 gallons per minute at all times while the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
3. The rate of recirculation of the scrubber liquor to the tray tower scrubber shall be maintained at a value of not less than 10 gallons per minute (gpm) at all times while the emissions unit is in operation. After each round of emissions testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
4. The pH of the scrubber liquor in the tray tower scrubber shall be maintained at a value of not less than 10.0 when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pH value for the scrubber liquor based upon the operation of the scrubbers during the emission test.
5. This emissions unit shall be maintained under negative pressure when in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the venturi scrubber, as well as the scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices

shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pressure drop across the scrubber, in inches of water column, twice per shift (not less than 4 hours apart);
 - b. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - c. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
2. The permittee shall properly operate and maintain equipment to continuously monitor the tray tower scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
3. The permittee shall properly operate and maintain equipment to continuously monitor the pH of the tray tower scrubber liquor, while the emissions unit is in operation. The pH monitor shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pH of the scrubber liquor, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
4. The permittee shall collect and record the following information each day for emissions units P007, P031, P032, P033, P034, and P035:
- a. the name and identification of each product produced;

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- b. the total amount of product produced, in pounds; and
- c. the amount of OC emissions for all six curing ovens, calculated using the following equation:

$$(0.0032777 \text{ lbs OC/lbs product}) \times (\text{total lbs product/day}) = \text{lbs OC emissions/day}$$

(The above emission factor was determined from stack testing for a worst case product. This stack test was performed in October of 2007. The emission factor was also confirmed with a stack test performed in October of 2006.)

- 5. The permittee shall collect and record the following information each month for emissions units P007, P031, P032, P033, P034, and P035:
 - a. the amount of OC emissions, in tons (\sum 4.c/2,000); and
 - b. the rolling, 12-month summation of OC emissions, in tons.
- 6. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the scrubber stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

The permittee may reduce the frequency of visual observations from daily to weekly for this emissions unit if the following conditions are met:

- a. for 1 full quarter the facility's visual observations indicate no visible emissions; and
- b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to readings of daily if any visible emissions are observed.

IV. Reporting Requirements

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1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following venturi scrubber parameters were not maintained within the required levels:
 - a. the static pressure drop across the scrubber; and
 - b. the scrubber liquor recirculation flow rate.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following tray tower scrubber parameters were not maintained within the required levels:
 - a. the scrubber liquor recirculation flow rate; and
 - b. the pH of the scrubber liquor.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission limitation for OC. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
4. The permittee shall submit quarterly deviation reports that identify each day during which the emissions unit was in operation and the capture (collection) system and/or control device were not in operation.
5. The quarterly deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the wet scrubber serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the following emission limitation(s) in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
1.2 pounds PE per hour combined for P007, P031, P032, P033, P034, and P035

Applicable Compliance Method:

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Emissions Unit ID: P031

If required, compliance with the mass emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03(B).

- 1.b Emission Limitation:
20% opacity as a 6-minute average (stack)

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.c Emission Limitation:
5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.

- 1.d Emission Limitation:
7.5 tpy OC per rolling, 12-month period, for the list of emissions units in A.I.2.a

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping requirements specified in A.III.4 and A.III.5.

VI. Miscellaneous Requirements

None.

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Emissions Unit ID: P031

B. State Only Enforceable Section

I. 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>
P031 - pigment curing oven no. 2 directly vented to a venturi scrubber and a tray tower scrubber, in series.		

2. Additional Terms and Conditions

None.

II. Operational Restrictions

1. The permittee shall follow the Ohio EPA-approved (March 28, 1991 letter from Mr. Thomas Rigo) operator training program for the proper operation and maintenance of the control equipment, as described in the March 28, 1991 Director's Final Findings & Orders, or such alternative program approved by the Cleveland Division of Air Quality that is consistent with the Final Findings & Orders.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
<p>P032 - pigment curing oven no. 3 directly vented to a venturi scrubber and a tray tower scrubber, in series.</p>	<p>OAC rule 3745-31-05(A)(3)</p>	<p>1.2 lb PE/hr and 5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035</p> <p>See A.I.2.a below.</p>
<p>Modified</p> <p>(Terms in this permit will supersede those identified in PTI 13-01058 issued final on 10/6/1983 for emissions unit P007.)</p>	<p>OAC rule 3745-17-07(A)(1)</p>	<p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).</p>
<p>(Terms in this permit will supersede those identified in PTI 13-04335 issued final on 10/12/2004 for emissions unit P007.)</p>	<p>OAC rule 3745-17-11(B)(1)</p>	<p>Visible particulate emissions (PE) from the tray tower scrubber stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.</p> <p>The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).</p>
	<p>OAC rule 3745-21-07(G)(1)</p>	<p>The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).</p>

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2. Additional Terms and Conditions

- 2.a** The emissions of OC from the six curing ovens, combined, shall not exceed 7.5 tons per year, based upon a rolling, 12-month summation of the monthly emissions. The six curing ovens at Day-Glo Color Corporation are P007, P031, P032, P033, P034, and P035. This emission limitation is more stringent than the emission limitation established pursuant to OAC Rule 3745-21-07(G)(1).

II. Operational Restrictions

1. The pressure drop across the venturi scrubber shall be maintained at a minimum of 7 inches of water column when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pressure drop based upon the operation of the scrubber during the emission test.
2. The scrubber liquor recirculation rate for the venturi scrubber shall be continuously maintained at a value of not less than 70 gallons per minute at all times while the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
3. The rate of recirculation of the scrubber liquor to the tray tower scrubber shall be maintained at a value of not less than 10 gallons per minute (gpm) at all times while the emissions unit is in operation. After each round of emissions testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
4. The pH of the scrubber liquor in the tray tower scrubber shall be maintained at a value of not less than 10.0 when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pH value for the scrubber liquor based upon the operation of the scrubbers during the emission test.
5. This emissions unit shall be maintained under negative pressure when in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the venturi scrubber, as well as the scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices

shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pressure drop across the scrubber, in inches of water column, twice per shift (not less than 4 hours apart);
 - b. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - c. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
2. The permittee shall properly operate and maintain equipment to continuously monitor the tray tower scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
3. The permittee shall properly operate and maintain equipment to continuously monitor the pH of the tray tower scrubber liquor, while the emissions unit is in operation. The pH monitor shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pH of the scrubber liquor, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
4. The permittee shall collect and record the following information each day for emissions units P007, P031, P032, P033, P034, and P035:
- a. the name and identification of each product produced;

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- b. the total amount of product produced, in pounds; and
- c. the amount of OC emissions for all six curing ovens, calculated using the following equation:

$$(0.0032777 \text{ lbs OC/lbs product}) \times (\text{total lbs product/day}) = \text{lbs OC emissions/day}$$

(The above emission factor was determined from stack testing for a worst case product. This stack test was performed in October of 2007. The emission factor was also confirmed with a stack test performed in October of 2006.)

- 5. The permittee shall collect and record the following information each month for emissions units P007, P031, P032, P033, P034, and P035:
 - a. the amount of OC emissions, in tons ($\sum 4.c/2,000$); and
 - b. the rolling, 12-month summation of OC emissions, in tons.
- 6. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the scrubber stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

The permittee may reduce the frequency of visual observations from daily to weekly for this emissions unit if the following conditions are met:

- a. for 1 full quarter the facility's visual observations indicate no visible emissions; and
- b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to readings of daily if any visible emissions are observed.

IV. Reporting Requirements

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1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following venturi scrubber parameters were not maintained within the required levels:
 - a. the static pressure drop across the scrubber; and
 - b. the scrubber liquor recirculation flow rate.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following tray tower scrubber parameters were not maintained within the required levels:
 - a. the scrubber liquor recirculation flow rate; and
 - b. the pH of the scrubber liquor.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission limitation for OC. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
4. The permittee shall submit quarterly deviation reports that identify each day during which the emissions unit was in operation and the capture (collection) system and/or control device were not in operation.
5. The quarterly deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the wet scrubber serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the following emission limitation(s) in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
1.2 pounds PE per hour combined for P007, P031, P032, P033, P034, and P035

Applicable Compliance Method:

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If required, compliance with the mass emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03(B).

- 1.b Emission Limitation:
20% opacity as a 6-minute average (stack)

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.c Emission Limitation:
5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.

- 1.d Emission Limitation:
7.5 tpy OC per rolling, 12-month period, for the list of emissions units in A.I.2.a

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping requirements specified in A.III.4 and A.III.5.

VI. Miscellaneous Requirements

None.

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B. State Only Enforceable Section

I. 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>
P032 - pigment curing oven no. 3 directly vented to a venturi scrubber and a tray tower scrubber, in series.		

2. Additional Terms and Conditions

None.

II. Operational Restrictions

1. The permittee shall follow the Ohio EPA-approved (March 28, 1991 letter from Mr. Thomas Rigo) operator training program for the proper operation and maintenance of the control equipment, as described in the March 28, 1991 Director's Final Findings & Orders, or such alternative program approved by the Cleveland Division of Air Quality that is consistent with the Final Findings & Orders.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

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A. State and Federally Enforceable Section

I. 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>
P033 - pigment curing oven no. 4 directly vented to a venturi scrubber and a tray tower scrubber, in series. Modified (Terms in this permit will supersede those identified in PTI 13-01058 issued final on 10/6/1983 for emissions unit P007.) (Terms in this permit will supersede those identified in PTI 13-04335 issued final on 10/12/2004 for emissions unit P007.)	OAC rule 3745-31-05(A)(3)	1.2 lb PE/hr and 5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035 See A.I.2.a below. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) from the tray tower scrubber stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(1)	The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).

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Emissions Unit ID: P033

2. Additional Terms and Conditions

- 2.a** The emissions of OC from the six curing ovens, combined, shall not exceed 7.5 tons per year, based upon a rolling, 12-month summation of the monthly emissions. The six curing ovens at Day-Glo Color Corporation are P007, P031, P032, P033, P034, and P035. This emission limitation is more stringent than the emission limitation established pursuant to OAC Rule 3745-21-07(G)(1).

II. Operational Restrictions

1. The pressure drop across the venturi scrubber shall be maintained at a minimum of 7 inches of water column when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pressure drop based upon the operation of the scrubber during the emission test.
2. The scrubber liquor recirculation rate for the venturi scrubber shall be continuously maintained at a value of not less than 70 gallons per minute at all times while the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
3. The rate of recirculation of the scrubber liquor to the tray tower scrubber shall be maintained at a value of not less than 10 gallons per minute (gpm) at all times while the emissions unit is in operation. After each round of emissions testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
4. The pH of the scrubber liquor in the tray tower scrubber shall be maintained at a value of not less than 10.0 when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pH value for the scrubber liquor based upon the operation of the scrubbers during the emission test.
5. This emissions unit shall be maintained under negative pressure when in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the venturi scrubber, as well as the scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices

shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pressure drop across the scrubber, in inches of water column, twice per shift (not less than 4 hours apart);
 - b. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - c. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
2. The permittee shall properly operate and maintain equipment to continuously monitor the tray tower scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
3. The permittee shall properly operate and maintain equipment to continuously monitor the pH of the tray tower scrubber liquor, while the emissions unit is in operation. The pH monitor shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pH of the scrubber liquor, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
4. The permittee shall collect and record the following information each day for emissions units P007, P031, P032, P033, P034, and P035:
- a. the name and identification of each product produced;

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- b. the total amount of product produced, in pounds; and
- c. the amount of OC emissions for all six curing ovens, calculated using the following equation:

$$(0.0032777 \text{ lbs OC/lbs product}) \times (\text{total lbs product/day}) = \text{lbs OC emissions/day}$$

(The above emission factor was determined from stack testing for a worst case product. This stack test was performed in October of 2007. The emission factor was also confirmed with a stack test performed in October of 2006.)

- 5. The permittee shall collect and record the following information each month for emissions units P007, P031, P032, P033, P034, and P035:
 - a. the amount of OC emissions, in tons ($\sum 4.c/2,000$); and
 - b. the rolling, 12-month summation of OC emissions, in tons.
- 6. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the scrubber stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

The permittee may reduce the frequency of visual observations from daily to weekly for this emissions unit if the following conditions are met:

- a. for 1 full quarter the facility's visual observations indicate no visible emissions; and
- b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to readings of daily if any visible emissions are observed.

IV. Reporting Requirements

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Emissions Unit ID: P033

1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following venturi scrubber parameters were not maintained within the required levels:
 - a. the static pressure drop across the scrubber; and
 - b. the scrubber liquor recirculation flow rate.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following tray tower scrubber parameters were not maintained within the required levels:
 - a. the scrubber liquor recirculation flow rate; and
 - b. the pH of the scrubber liquor.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission limitation for OC. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
4. The permittee shall submit quarterly deviation reports that identify each day during which the emissions unit was in operation and the capture (collection) system and/or control device were not in operation.
5. The quarterly deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the wet scrubber serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the following emission limitation(s) in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
1.2 pounds PE per hour combined for P007, P031, P032, P033, P034, and P035

Applicable Compliance Method:

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Emissions Unit ID: P033

If required, compliance with the mass emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03(B).

- 1.b Emission Limitation:
20% opacity as a 6-minute average (stack)

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.c Emission Limitation:
5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.

- 1.d Emission Limitation:
7.5 tpy OC per rolling, 12-month period, for the list of emissions units in A.I.2.a

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping requirements specified in A.III.4 and A.III.5.

VI. Miscellaneous Requirements

None.

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Emissions Unit ID: P033

B. State Only Enforceable Section

I. 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>
P033 - pigment curing oven no. 4 directly vented to a venturi scrubber and a tray tower scrubber, in series.		

2. Additional Terms and Conditions

None.

II. Operational Restrictions

1. The permittee shall follow the Ohio EPA-approved (March 28, 1991 letter from Mr. Thomas Rigo) operator training program for the proper operation and maintenance of the control equipment, as described in the March 28, 1991 Director's Final Findings & Orders, or such alternative program approved by the Cleveland Division of Air Quality that is consistent with the Final Findings & Orders.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P034 - pigment curing oven no. 5 directly vented to a venturi scrubber and a tray tower scrubber, in series. Modified (Terms in this permit will supersede those identified in PTI 13-01058 issued final on 10/6/1983 for emissions unit P007.) (Terms in this permit will supersede those identified in PTI 13-04335 issued final on 10/12/2004 for emissions unit P007.)	OAC rule 3745-31-05(A)(3)	1.2 lb PE/hr and 5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035 See A.I.2.a below.
	OAC rule 3745-17-07(A)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-11(B)(1)	Visible particulate emissions (PE) from the tray tower scrubber stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-21-07(G)(1)	The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).
		The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).

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2. Additional Terms and Conditions

- 2.a** The emissions of OC from the six curing ovens, combined, shall not exceed 7.5 tons per year, based upon a rolling, 12-month summation of the monthly emissions. The six curing ovens at Day-Glo Color Corporation are P007, P031, P032, P033, P034, and P035. This emission limitation is more stringent than the emission limitation established pursuant to OAC Rule 3745-21-07(G)(1).

II. Operational Restrictions

1. The pressure drop across the venturi scrubber shall be maintained at a minimum of 7 inches of water column when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pressure drop based upon the operation of the scrubber during the emission test.
2. The scrubber liquor recirculation rate for the venturi scrubber shall be continuously maintained at a value of not less than 70 gallons per minute at all times while the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
3. The rate of recirculation of the scrubber liquor to the tray tower scrubber shall be maintained at a value of not less than 10 gallons per minute (gpm) at all times while the emissions unit is in operation. After each round of emissions testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
4. The pH of the scrubber liquor in the tray tower scrubber shall be maintained at a value of not less than 10.0 when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pH value for the scrubber liquor based upon the operation of the scrubbers during the emission test.
5. This emissions unit shall be maintained under negative pressure when in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the venturi scrubber, as well as the scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices

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shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pressure drop across the scrubber, in inches of water column, twice per shift (not less than 4 hours apart);
 - b. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - c. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
2. The permittee shall properly operate and maintain equipment to continuously monitor the tray tower scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
3. The permittee shall properly operate and maintain equipment to continuously monitor the pH of the tray tower scrubber liquor, while the emissions unit is in operation. The pH monitor shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pH of the scrubber liquor, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
4. The permittee shall collect and record the following information each day for emissions units P007, P031, P032, P033, P034, and P035:
- a. the name and identification of each product produced;
 - b. the total amount of product produced, in pounds; and

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- c. the amount of OC emissions for all six curing ovens, calculated using the following equation:

$$(0.0032777 \text{ lbs OC/lbs product}) \times (\text{total lbs product/day}) = \text{lbs OC emissions/day}$$

(The above emission factor was determined from stack testing for a worst case product. This stack test was performed in October of 2007. The emission factor was also confirmed with a stack test performed in October of 2006.)

- 5. The permittee shall collect and record the following information each month for emissions units P007, P031, P032, P033, P034, and P035:
 - a. the amount of OC emissions, in tons ($\sum 4.c/2,000$); and
 - b. the rolling, 12-month summation of OC emissions, in tons.
- 6. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the scrubber stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

The permittee may reduce the frequency of visual observations from daily to weekly for this emissions unit if the following conditions are met:

- a. for 1 full quarter the facility's visual observations indicate no visible emissions; and
- b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to readings of daily if any visible emissions are observed.

IV. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following venturi scrubber parameters were not maintained within the required levels:

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- a. the static pressure drop across the scrubber; and
 - b. the scrubber liquor recirculation flow rate.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following tray tower scrubber parameters were not maintained within the required levels:
 - a. the scrubber liquor recirculation flow rate; and
 - b. the pH of the scrubber liquor.
 3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission limitation for OC. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
 4. The permittee shall submit quarterly deviation reports that identify each day during which the emissions unit was in operation and the capture (collection) system and/or control device were not in operation.
 5. The quarterly deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
 6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the wet scrubber serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the following emission limitation(s) in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
1.2 pounds PE per hour combined for P007, P031, P032, P033, P034, and P035

Applicable Compliance Method:
If required, compliance with the mass emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03(B).
 - 1.b Emission Limitation:

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Emissions Unit ID: P034

20% opacity as a 6-minute average (stack)

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

1.c Emission Limitation:

5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.

1.d Emission Limitation:

7.5 tpy OC per rolling, 12-month period, for the list of emissions units in A.I.2.a

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping requirements specified in A.III.4 and A.III.5.

VI. Miscellaneous Requirements

None.

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Emissions Unit ID: P034

B. State Only Enforceable Section

I. 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>
P034 - pigment curing oven no. 5 directly vented to a venturi scrubber and a tray tower scrubber, in series.		

2. Additional Terms and Conditions

None.

II. Operational Restrictions

1. The permittee shall follow the Ohio EPA-approved (March 28, 1991 letter from Mr. Thomas Rigo) operator training program for the proper operation and maintenance of the control equipment, as described in the March 28, 1991 Director's Final Findings & Orders, or such alternative program approved by the Cleveland Division of Air Quality that is consistent with the Final Findings & Orders.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.

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Emissions Unit ID: P035

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
<p>P035 - pigment curing oven no. 6 directly vented to a venturi scrubber and a tray tower scrubber, in series.</p>	<p>OAC rule 3745-31-05(A)(3)</p>	<p>1.2 lb PE/hr and 5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035</p> <p>See A.I.2.a below.</p>
<p>Modified</p> <p>(Terms in this permit will supersede those identified in PTI 13-01058 issued final on 10/6/1983 for emissions unit P007.)</p>	<p>OAC rule 3745-17-07(A)(1)</p>	<p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).</p> <p>Visible particulate emissions (PE) from the tray tower scrubber stack shall not exceed 20% opacity as a 6-minute average, except as provided by rule.</p>
<p>(Terms in this permit will supersede those identified in PTI 13-04335 issued final on 10/12/2004 for emissions unit P007.)</p>	<p>OAC rule 3745-17-11(B)(1)</p>	<p>The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).</p>
	<p>OAC rule 3745-21-07(G)(1)</p>	<p>The emission limitation established by this rule is less stringent than the emission limitation established pursuant to OAC Rule 3745-31-05(A)(3).</p>

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2. Additional Terms and Conditions

- 2.a** The emissions of OC from the six curing ovens, combined, shall not exceed 7.5 tons per year, based upon a rolling, 12-month summation of the monthly emissions. The six curing ovens at Day-Glo Color Corporation are P007, P031, P032, P033, P034, and P035. This emission limitation is more stringent than the emission limitation established pursuant to OAC Rule 3745-21-07(G)(1).

II. Operational Restrictions

1. The pressure drop across the venturi scrubber shall be maintained at a minimum of 7 inches of water column when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pressure drop based upon the operation of the scrubber during the emission test.
2. The scrubber liquor recirculation rate for the venturi scrubber shall be continuously maintained at a value of not less than 70 gallons per minute at all times while the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
3. The rate of recirculation of the scrubber liquor to the tray tower scrubber shall be maintained at a value of not less than 10 gallons per minute (gpm) at all times while the emissions unit is in operation. After each round of emissions testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new scrubber liquor recirculation rate based upon the operation of the scrubber during the emission test.
4. The pH of the scrubber liquor in the tray tower scrubber shall be maintained at a value of not less than 10.0 when the emissions unit is in operation. After each round of emission testing that demonstrates that the emissions unit was operating in compliance with the applicable requirements, the permittee may establish a new, minimum pH value for the scrubber liquor based upon the operation of the scrubbers during the emission test.
5. This emissions unit shall be maintained under negative pressure when in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the venturi scrubber, as well as the scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices

shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pressure drop across the scrubber, in inches of water column, twice per shift (not less than 4 hours apart);
 - b. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - c. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
2. The permittee shall properly operate and maintain equipment to continuously monitor the tray tower scrubber liquor recirculation flow rate, while the emissions unit is in operation. The monitoring devices shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the scrubber liquor recirculation flow rate, in gallons per minute, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
3. The permittee shall properly operate and maintain equipment to continuously monitor the pH of the tray tower scrubber liquor, while the emissions unit is in operation. The pH monitor shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

The permittee shall collect and record the following information each day:

- a. the pH of the scrubber liquor, twice per shift (not less than 4 hours apart); and
 - b. the down times for the capture (collection) system, control device, and monitoring equipment when the associated emissions unit was in operation.
4. The permittee shall collect and record the following information each day for emissions units P007, P031, P032, P033, P034, and P035:
- a. the name and identification of each product produced;

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- b. the total amount of product produced, in pounds; and
- c. the amount of OC emissions for all six curing ovens, calculated using the following equation:

$$(0.0032777 \text{ lbs OC/lbs product}) \times (\text{total lbs product/day}) = \text{lbs OC emissions/day}$$

(The above emission factor was determined from stack testing for a worst case product. This stack test was performed in October of 2007. The emission factor was also confirmed with a stack test performed in October of 2006.)

- 5. The permittee shall collect and record the following information each month for emissions units P007, P031, P032, P033, P034, and P035:
 - a. the amount of OC emissions, in tons ($\sum 4.c/2,000$); and
 - b. the rolling, 12-month summation of OC emissions, in tons.
- 6. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the scrubber stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

The permittee may reduce the frequency of visual observations from daily to weekly for this emissions unit if the following conditions are met:

- a. for 1 full quarter the facility's visual observations indicate no visible emissions; and
- b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to readings of daily if any visible emissions are observed.

IV. Reporting Requirements

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1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following venturi scrubber parameters were not maintained within the required levels:
 - a. the static pressure drop across the scrubber; and
 - b. the scrubber liquor recirculation flow rate.
2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following tray tower scrubber parameters were not maintained within the required levels:
 - a. the scrubber liquor recirculation flow rate; and
 - b. the pH of the scrubber liquor.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month emission limitation for OC. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.
4. The permittee shall submit quarterly deviation reports that identify each day during which the emissions unit was in operation and the capture (collection) system and/or control device were not in operation.
5. The quarterly deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the wet scrubber serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

1. Compliance with the following emission limitation(s) in Section A.I.1. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
1.2 pounds PE per hour combined for P007, P031, P032, P033, P034, and P035

Applicable Compliance Method:

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If required, compliance with the mass emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03(B).

- 1.b Emission Limitation:
20% opacity as a 6-minute average (stack)

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.c Emission Limitation:
5.26 tpy PE combined for P007, P031, P032, P033, P034, and P035

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.

- 1.d Emission Limitation:
7.5 tpy OC per rolling, 12-month period, for the list of emissions units in A.I.2.a

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping requirements specified in A.III.4 and A.III.5.

VI. Miscellaneous Requirements

None.

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Facility ID: 1318006552
Emissions Unit ID: P035

B. State Only Enforceable Section

I. 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>
P035 - pigment curing oven no. 6 directly vented to a venturi scrubber and a tray tower scrubber, in series.		

2. Additional Terms and Conditions

None.

II. Operational Restrictions

1. The permittee shall follow the Ohio EPA-approved (March 28, 1991 letter from Mr. Thomas Rigo) operator training program for the proper operation and maintenance of the control equipment, as described in the March 28, 1991 Director's Final Findings & Orders, or such alternative program approved by the Cleveland Division of Air Quality that is consistent with the Final Findings & Orders.

III. Monitoring and/or Recordkeeping Requirements

None.

IV. Reporting Requirements

None.

V. Testing Requirements

None.

VI. Miscellaneous Requirements

None.