State of Ohio Environmental Protection Agency

RE: DRAFT PERMIT TO INSTALL **CERTIFIED MAIL**
PICKAWAY COUNTY

Street Address: Mailing Address: Lazarus Gov. Center
Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329

Application No: 01-08822

DATE: 3/18/2004

General Electric Circleville Lamp Plant
Jason Bergquist
559 E Ohio St
Circleville, OH 43113

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed of final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **$500** will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Very truly yours,

Michael W. Ahern

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

CC: **USEPA** **CDO** **KY**
Bruce Weinberg, OEPA, DAPC

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install **Issue Date: To be entered upon final issuance**
Terms and Conditions **Effective Date: To be entered upon final issuance**

DRAFT PERMIT TO INSTALL 01-08822

Application Number:	01-08822
APS Premise Number:	0165010026
Permit Fee:	**To be entered upon final issuance**
Name of Facility:	General Electric Circleville Lamp Plant
Person to Contact:	Jason Bergquist
Address:	559 E Ohio St Circleville, OH 43113

Location of proposed air contaminant source(s) [emissions unit(s)]:
559 E Ohio St
Circleville, Ohio

Description of proposed emissions unit(s):
Group 12 lamp assembly line.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

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

1. Monitoring and Related Record keeping 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 record keeping 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 <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and record keeping 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 quarterly, i.e., 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, record keeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., 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. 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.

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 reissuance, or modification, or for denial of a permit renewal application.

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, reopened, 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, reopening 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 this Permit To Install.

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 of 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, the State, and citizens 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 To Install 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.

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

1. Compliance Requirements

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

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

a. Reports of any required monitoring and/or record keeping 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 record keeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. 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. Termination of Permit To Install

This permit to install shall terminate within eighteen months of the effective date of the permit to install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may

be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

5. Construction of New Sources(s)

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

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

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 Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

8. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the

facility has been constructed in accordance with the Permit To Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

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., 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

Pollutant	Tons Per Year
SO_x	3.5
NO_x	4.4
CO	1.4
OC	7.4
Hg	0.026

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

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

None

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	OAC rule 3745-21-09(U)
P029 - lamp assembly line - group 12 with carbon adsorption unit	OAC rule 3745-31-05(A)(3)	
	OAC rule 3745-17-11(B)(1) OAC rule 3745-18-06(E)(2)	
	OAC rule 3745-17-07(A)	
	OAC rule 3745-21-07(G)	

Applicable Emissions Limitations/Control Measures	
	shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
Sulfur dioxide emissions shall not exceed 0.8 pound per hour and 3.5 tons per year.	See A.I.2.a below. See A.I.2.b below.
Nitrogen oxides emissions shall not exceed 1.00 pound per hour and 4.4 tons per year.	
Carbon monoxide emissions shall not exceed 0.33 pound per hour and 1.4 tons per year.	
Organic compound emissions shall not exceed 1.67 pounds per hour and 7.4 tons per year.	
Mercury emissions shall not exceed 0.006 pound per hour and 0.026 ton per year.	
The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).	
See A.I.2.c through A.I.2.d below.	
The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).	
Visible particulate emissions	

2. Additional Terms and Conditions

2.a To avoid the emission limitations/control requirements contained in OAC rule 3745-21-07(G), no photochemically reactive materials (i.e., as raw materials or cleanup materials) shall be employed in this emissions unit.

Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).

2.b Pursuant to OAC rule 3745-21-09(U)(2)(e)(iii), this emissions unit is exempt from the emission limitation specified in OAC rule 3745-21-09(U)(1)(d) because the emissions unit never uses more than 10 gallons per day when coating miscellaneous metal parts.

2.c The permittee shall vent all mercury emissions from this emissions unit to a carbon adsorption unit.

2.d The permittee shall maintain the carbon adsorption system controlling the central vacuum system which serves emissions units P038-group 4, P039-group 7, P040-group 10, P041-group 11, P029-group 12, P019-group 14, P024-group 16, P044-group 17, P004-group 18, P042-group 22, P043-group 24, P025-group 25 and P026-group 26 at a control efficiency of at least 90% for mercury and a mercury emission rate of less than 0.0196 pound per hour at all times.

2.e The hourly emission limitations are based on the emissions unit's potential to emit. Therefore, additional monitoring, record keeping and reporting requirements are not necessary to ensure compliance with these emission limitations.

2.f Sections A.I.2.a through e above are intended for clarification of current regulatory applicability under this permit at time of issuance, and are not intended to address or prohibit any change that could otherwise be processed under OAC rule 3745-77-07(I).

II. Operational Restrictions

1. The permittee shall burn only natural gas, or other such 'inherently clean' fuel that would result in emissions that comply with the limitations and restrictions of this permit, in this emissions unit.

2. The maximum daily coating usage when coating miscellaneous metal parts shall not exceed 10 gallons.

III. Monitoring and/or Record keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas or other such 'inherently clean' fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

2. The permittee shall maintain a log identifying the dates when the carbon, used in the carbon adsorber serving this emissions unit, is replaced.

3. For each day during which the permittee employs a coating other than a non-photochemically reactive material, the permittee shall maintain a record of the type and quantity of coating used in this emissions unit.

4. The permittee shall maintain daily records of the total coating usage in this emissions unit.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than natural gas or other such 'inherently clean' fuel was burned in this emissions unit.

2. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time when a photochemically reactive material is employed in this emissions unit.

3. The permittee shall submit annual reports which identify any exceedances of the daily coating usage limitation, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

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

a. Emission Limitation -
Sulfur dioxide emissions shall not exceed 0.8 pound per hour and 3.5 tons per year.

Applicable Compliance Method -
Compliance shall be demonstrated by summing the emissions from the process and from the combustion of natural gas.

Natural gas combustion emissions may be demonstrated by multiplying the emission factor for natural gas combustion of 0.6 lb SO_2/mmcu.ft. (AP-42,Table 1.4-2, 7/98) by the maximum dryer throughput of 8350 cu.ft./hr. (0.005 #SO_2/hr = 0.02 TPY)

Process SO_2 emissions are based on SO_2 usages. Max. usage is 0.785 # SO_2/hr.

Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained. The annual limitation was calculated by multiplying the hourly limitation by 8760 hours/year and dividing by 2000 pounds/ton.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

b. Emission Limitation -
Nitrogen oxides emissions shall not exceed 1.00 pound per hour and 4.4 tons per year.

Applicable Compliance Method -
Compliance may be demonstrated by multiplying the emission factor for natural gas combustion of 94 lbs NO_x/mmcu.ft. (AP-42,Table 1.4-1, 7/98) by the maximum dryer throughput of 8350 cu.ft./hr.

Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained. The annual limitation was calculated by multiplying the hourly limitation by 8760 hours/year and dividing by 2000 pounds/ton.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7

c. Emission Limitation -
Carbon monoxide emissions shall not exceed 0.33 pound per hour and 1.4 tons per year.

Applicable Compliance Method -
Compliance may be demonstrated by multiplying the emission factor for natural gas combustion of 40 lbs CO/mmcu.ft. (AP-42,Table 1.4-1, 7/98) by the maximum dryer throughput of 8350 cu.ft./hr.

Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained. The annual limitation was calculated by multiplying the hourly limitation by 8760 hours/year and dividing by 2000 pounds/ton.

If required, the permittee shall demonstrate compliance by emission testing in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

d. Emission Limitation -
Organic compound emissions shall not exceed 1.67 pounds per hour and 7.4 tons per year.

Applicable Compliance Method -
Compliance shall be demonstrated by summing the emissions from the process and from the combustion of natural gas.

Compliance may be demonstrated by multiplying the emission factor for natural gas combustion of 11.0 lbs TOC/mmcu.ft. (AP-42,Table 1.4-2, 7/98) by the maximum dryer throughput of 8350 cu.ft./hr.

Process OC emissions based on the following maximum potential usages and organic contents:

head marking ink - (5.61 #OC/gallon)(0.003 gallon/hr) = 0.02 #/hr
headmark solvent clean up - (7.0 #OC/gal)(13 gal/yr) / 2000 #/ton = 0.05 TPY
emission mix - (3.49 #OC/#mix)(0.0138 #mix/hr) = 0.05 #/hr
dri-film - (0.0834 gallon/hr)(3.49 lbOC/gallon) = 0.3 #/hr
base cement - (700 lamps/hr)(2 bases/lamp)(6.5 grams cement/base)(1 lb/454 grams)(0.074 lb OC/lb cement)(81% OC emitted during assembly) = 1.2 #/hr
Hourly total = 0.02 +0.05+0.3+1.2+0.1 = 1.67 #/hr
Annual total = 7.3+0.05 = 7.4 TPY

Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained. The annual limitation was calculated by multiplying the hourly limitation by 8760 hours/year and dividing by 2000 pounds/ton.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.

e. Emission Limitation -
Mercury emissions shall not exceed 0.006 pound per hour and 0.026 tons per year.

Applicable Compliance Method -
Hg emissions are based on Hg usages and 90% control efficiency, tested in June 1995. Max. usage is 0.0585#/hr, according to PTI 01-08822 Application corrected Appendix A

Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained. The annual limitation was calculated by multiplying the hourly limitation by 8760 hours/year and dividing by 2000 pounds/ton.

If required, the permittee shall demonstrate compliance with the hourly emission limitation

through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 29 or 101.

f. Emission Limitation -
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

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).

g. Emission Limitation -
The carbon adsorption system controlling the central vacuum system which serves emissions units P038-group 4, P039-group 7, P040-group 10, P041-group 11, P029-group 12, P019-group 14, P024-group 16, P044-group 17, P004-group 18, P042-group 22, P043-group 24, P025-group 25 and P026-group 26 shall maintain a control efficiency of at least 90% for mercury and a mercury emission rate of less than 0.0196 pound per hour at all times.

Applicable Compliance Method -
The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

i. The emission testing shall be conducted in accordance with the Title V Permit;

ii. The emission testing shall be conducted to demonstrate compliance with the control efficiency requirement for mercury;

iii. The following test methods shall be employed to demonstrate compliance with the hourly allowable mass emission rate for mercury and demonstrate compliance by emission testing as specified in Section A.V.1.g: Methods 1 through 4 and 29 or 101, 40 CFR Part 60, Appendix A (alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA); and

iv. The test(s) shall be conducted while the following emissions units are operating at or near maximum capacities unless otherwise specified or approved by the Ohio EPA, Central District Office: P038-group 4, P039-group 7, P040-group 10, P041-group 11, P029-group 12, P019-group 14, P024-group 16, P044-group 17, P004-

group 18, P042-group 22, P043-group 24, P025-group 25 and P026-group 26.

VI. Miscellaneous Requirements

None

Emissions Unit ID: **P029**

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P029 - lamp assembly line - group 12 with carbon adsorption unit	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Record keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Emissions Unit ID: **P029**

NEW SOURCE REVIEW FORM B

PTI Number: 01-08822 Facility ID: 0165010026

FACILITY NAME General Electric Circleville Lamp Plant

FACILITY DESCRIPTION Group 12 lamp assembly line CITY/TWP Circleville

SIC CODE 3641 SCC CODE 01-03-006-02, 4-90-999-99, 3-05-014-99, 3-99-999-99 EMISSIONS UNIT ID P029

EMISSIONS UNIT DESCRIPTION lamp assembly line - group 12 with carbon adsorption unit

DATE INSTALLED 1960

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM_{10}					
Sulfur Dioxide				0.8	3.5
Organic Compounds				1.67	7.8
Nitrogen Oxides				1.0	4.4
Carbon Monoxide				0.33	1.4
Lead					
Mercury				0.006	0.026

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination emission limitations, burn only natural gas, 90% control for mercury with carbon adsorption

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes - see Title V Permit.

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

TOXIC AIR CONTAMINANTS

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

AIR TOXICS MODELING PERFORMED*? X YES ____ NO

IDENTIFY THE AIR CONTAMINANTS: mercury