



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

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Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

RE: **FINAL PERMIT TO INSTALL MODIFICATION CERTIFIED MAIL**

MIAMI COUNTY
Application No: 08-03377

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

DATE: 10/12/2000

American Matsushita Electronics Company
Steve Fogle
1400 West Market St
Troy, OH 45373

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

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

Very truly yours,

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

CC: USEPA

RAPCA



FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL

08-03377

Application Number: **08-03377**

APS Premise Number: **0855140417**

Permit Fee: **\$300**

Name of Facility: **American Matsushita Electronics Company**

Person to Contact: **Steve Fogle**

Address: **1400 West Market St
Troy, OH 45373**

Location of proposed air contaminant source(s) [emissions unit(s)]:

**1400 West Market St
Troy, OHIO**

Description of modification:

Modification of B004 in PTI 08-3377 issued on July 26, 1995, due to changes in the AP-42 emission factors.

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

Director

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(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 are inadequate or cannot meet applicable standards.

If the construction of the proposed source(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 Ohio Administrative Code (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 applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **American Matsushita Electronics Company** located in **MIAMI** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P021	C-108,Mask Process, gas Blackening	Compliance w/applicable rules and specified emission rates	3745-31-05 3745-31-05 (A)(3) 3745-21-08(B)	.0063 lb/hr .15 lb/day .026 TPY Particulate; .00076 lb/hr, .012 lb/day .0021 TPY SO ₂ ; .176 lb/hr, 4.22 lbs/day .74 TPY NO _x ; 8.0 lbs/hr, 192.0 lbs/day 33.6 TPY CO; .0063 lb/hr, .15 lb/day, .02 TPY OC.
P022	C-202, BM Process HF washing	Compliance w/ applicable rules and specified emission rates through application of packed tower scrubber; ≥ 95% control efficiency; recordkeeping.	3745-31-05 3745-15-07	.0413 lb/hr, .9921 lb/day,, .1736 TPY HF
P023	C-502, funnel process, HF washing	Compliance w/ applicable rules and specified emission rates through application of packed tower scrubber; ≥ 95% control efficiency; recordkeeping.	3745-31-05 3745-15-07	.0003 lb/hr .0079 lb/day, .0014 TPY HF
P024				

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
K011	Lacquer Mixing	Compliance w/ applicable rules and specified emission rates through total enclosure of room with air sweeping action at three levels and venting to fume concentrator followed by catalytic incinerator with 90% overall control efficiency; recordkeeping and reporting.	3745-31-05 3745-21-07 (G) (2)	0.1 lb/hr 2.4 lbs/day, .42 TPY OC
P025	C-310/311/312 Lacquer ctg/ equalizing/drying	Compliance with applicable rules and specified emission rates through application of permanent total enclosure for 100% capture; fume concentrator followed by catalytic incinerator with 90% over all control efficiency; recordkeeping and reporting.	3745-31-05 3745-21-07 (G) (2)	1.24 lbs/hr (excluding cleanup). 44.32 lbs/day (including cleanup), 7.76 TPY OC (including cleanup)
P026	C-406, Bulb process, panel, mask, funnel assembly	Compliance with applicable rules and specified emission rates; recordkeeping and reporting.	3745-31-05 3745-21-07 (G) (2)	1.66 lbs/hr, 40 lbs/day, 7.0 TPY OC
K012	C-407, Bulb process, frit sealing	Compliance with applicable rules and specified emission rates; recordkeeping and reporting	3745-31-05 3745-17-11	.01 lb/hr, 0.24 lb/day, 0.042 TPY Pb
	C-504, Funnel process, frit coating and drying	Compliance with applicable rules and specified emission rates; through a min. 40% capture and 90% control efficiency through application of fume concentrator followed by	3745-31-05 3745-21-07 (G) (2)	1.60 lbs/hr (excluding cleanup), 40 lbs/day (including cleanup), 7.0 TPY OC (including cleanup)

P027		catalytic incineration; recordkeeping and reporting.		
	C-155, Pump maintenance Parts wash	Compliance with applicable rules and specified emission rates; recordkeeping and reporting	3745-31-05 3745-21-07 (G) (2)	2.01 lbs/hr, 48.3 lbs/day, 8.5 TPY OC
B004	Boiler #4; 21 MMBtu/H	Compliance with applicable rules and specified emission rates through the use of natural gas; recordkeeping and reporting	3745-31-05 3745-17-10(A) 3745-17-10 (B) (1) 40 CFR Part 60 Subpart Dc	0.020 lb particulate/MMBtu actual heat input, 1.84 TPY Particulate emissions; 0.03 lb/MMBtu sulfur dioxide (SO ₂), 2.76 TPY SO ₂ ; 0.15 lb/MMBtu Carbon Monoxide (CO), 13.75 TPY CO; 0.12 lb/MMBtu nitrogen dioxide (NO _x), 10.78 TPY NO _x ; 0.016 lb/MMBtu Organic Compound (OC), 1.47 TPY OC

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Particulate	1.87
SO ₂	2.76
NO _x	11.52
CO	47.35
OC	32.18
Pb	0.042
HF	0.175

NSPS REQUIREMENTS

The following sources are subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
B004	Boiler #4	Dc

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
P.O. Box 163669
Columbus, OH 43216-3669

and

Regional Air Pollution Control
451 West Third Street
Dayton, Ohio 45422

RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any representative of the Director, for review during normal business hours.

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Regional Air Pollution Control, 451 West Third Street, Dayton, Ohio 45422.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **RAPCA.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

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.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

1. Operating Schedule

Operation of the emission units identified in this permit shall not exceed 24 hours/day, 7 days/week, and 50 Weeks/year.

2. Emission Control and Capture Efficiency Requirements

Volatile organic compound emissions (toluene and amyl acetate) from emission unit K011 (C-310/311/312) lacquer spraying, equalizing and drying; emission unit P024 lacquer mixing; and emission unit K012 frit coating and drying shall be controlled through the application of a cartridge filter for particulate removal and VOC fume concentrator system followed by a catalytic incinerator.

The volatile organic compound (toluene and amyl acetate) emission control system identified above shall be required to achieve the following removal/destruction efficiencies:

- a. concentration system-----95 percent
(including particulate removal
and fume concentrator system)
- b. catalytic incinerator-----95 percent

The overall VOC removal/destruction efficiency for this control system shall be at least 90 percent.

Emissions of volatile organic compound emissions from emission unit K011 (C-310/311/312), including cleanup solvent emissions, shall be totally (100%) captured by way of “permanent total enclosure” and vented to the identified emission control system.

Emission of volatile organic compound emissions from emission unit K012, frit coating and drying, shall be captured at a rate equal to at least 40% by way of a drying tunnel associated with K012 and vented to the identified emission control system.

Emission of volatile organic compound emissions from emission unit P024, lacquer mixing, shall be totally (100%) captured by way of enclosed design with exhaust ducts situated at three levels to “sweep” and collect fugitive emissions and vented, to the identified emission control system.

Emissions of Hydrogen Fluoride (HF) from emission units P022 and P023, Black Matrix (BM) process (C-202) and Funnel process (C-502; HF washing, shall be controlled through the application of a packed tower scrubber operating at \geq 95% removal efficiency.

3. Common Stack Allowable Emission Rates

Emissions of volatile organic compounds (toluene & amyl acetate) from the common control system and exhaust stack serving emissions units K011 (C-310/311/312) lacquer spraying, equalizing, and drying; emission unit P024, lacquer mixing; and emission unit K012, frit coating and drying shall not exceed a total combined allowable emission rate of:

1.34 lbs/hr, 32.20 lbs/day and 5.64 tons/year, toluene 0.10 lb/hr, 2.40 lbs/day and .42 ton/year, amyl acetate 14.52 lbs/day and 2.54 tons/year, clean-up toluene 1.44 lbs/hr, 49.12 lbs/day and 8.60 tons/year, total VOC Emissions of HF from the common control system and exhaust stack serving emission units P022 (C-202) BM Process and P023 (C-502) Funnel Process, shall not exceed a total combined allowable emission rate of:

0.04 lb/hr, 1.0 lbs/day, 0.175 ton/year

4. Emission Unit K011 (C-310/311/312), Permanent Total Enclosure

Emission unit K011, consisting of lacquer spraying, equalizing, and drying shall meet the following criteria for “permanent total enclosure” (PTE):

- a. any “Natural Draft Opening” (NDO) shall be at least 4 equivalent diameters from each VOC emission point;
- b. the total area of all NDOs shall not exceed 5 percent of the surface area of the enclosure’s four walls, floor and ceiling;
- c. the average facial velocity (FV) of air through all NDOs shall be at least 3,600 m/hr (200 fpm). The direction of air through all NDOs shall be into the enclosure;
- d. all access doors and windows whose area are not included in paragraph b are not included in the calculation in paragraph c and shall be closed during routine operation; and
- e. all VOC emissions must be captured and contained for discharge through the VOC control device.

By satisfying the criteria above for establishing permanent total enclosure, the total organic capture efficiency shall be assumed to be 100%.

Definitions for PTE and NDO:

Permanent Total Enclosure (PTE) - A permanently installed enclosure that completely surrounds a source of emissions such that all VOC emissions are captured and contained for a discharge through a control device.

Natural Draft Opening (NDO) - Any permanent opening in the enclosure that remains open during

operation of the facility and is not connected to a duct to which a fan is installed.

5. Process Limitations

For emission unit K011, lacquer coating process material usage shall not exceed:

- a. 457 lbs/day and 159,950 lbs/yr toluene (excluding cleanup); and
- b. 145.2 lbs/day and 50,820 lbs/yr (cleanup).

For emission unit P024, lacquer mixing, process material mixing shall not exceed:

- a. 480 lbs/day and 168,000 lbs/yr toluene

For emission unit K012, frit coating and drying, process material usage shall not exceed:

- a. 60 lbs/day and 21,000 lbs/yr amyl acetate (excluding cleanup)

For emission unit P025, bulb process - panel mask assembly, process material usage shall not exceed:

- a. 40 lbs/day and 14,000 lbs/yr acetone

For emission unit P027, pump maintenance/ parts wash, process material usage shall not exceed:

- a. 17.5 lbs/day and 6,125 lbs/yr ethanol; and
- b. 30.8 lbs/day and 10,780 lbs/yr ethyl acetate.

6. Recordkeeping

This facility shall maintain daily records of the following:

For the emission unit K011, lacquer coating:

- a. lbs. lacquer and toluene inputs;
 - b. lbs. lacquer and toluene reclaim;
 - c. lbs. lacquer and toluene waste;
 - *d. lbs. toluene stripped from wastewater; and
 - e. lbs. cleanup solvent (independent of toluene used for production).
- (*This daily factor may be determined by way of a material balance used on the measured amounts of factors a, b, and c, K011.)

For emission unit P024, lacquer mixing:

- a. lbs. of toluene mixed; and
- b. lbs. of solids mixed.

For emission unit K012, frit coating and drying:

- a. lbs. of amyl acetate;
- b. lbs. of glass powder; and
- c. lbs. cleanup solvent.

For emission unit P025, bulb process; panel mask assembly:

- a. lbs. of acetone

For emission unit P027, pump maintenance/ parts wash:

- a. lbs. ethanol and ethyl acetate inputs; and
- b. lbs. ethanol and ethyl acetate recovered spent solvent.

7. Calculation of Daily Emission Rates

For emission unit K011, lacquer coating, the daily toluene emission rate shall be determined in accordance with the following equation:

$$\{a(\% \text{ toluene, vol.}) (7.26) + b(7.26)\} - [c(\% \text{ toluene, vol.}) (7.26) + d(\% \text{ toluene, vol.}) (7.26)] (1-.90) = x \text{ lbs/day}$$

where:

- a - gallons of lacquer suspension material
- b - gallons of toluene cleanup
- c - gallons of reclaim lacquer
- d - gallons of waste lacquer
- x - lbs/day toluene emission rate

For emission unit P024, lacquer mixing, the daily toluene emission rate shall be determined in accordance with the following equation:

$$a(0.05)_1(1-.90)_2 = x \text{ lbs/day}$$

where:

- a - toluene input (pounds)
- x - lbs/day toluene
- 1 - 5% fugitive OC emission loss

2 - 90% overall OC emission control

For emission unit K012 frit coating and drying, the daily organic compound emission rate shall be determined in accordance with the following equation:

$$a(.40)_1 (1-.90)_2 + a(.60) + b = x \text{ lbs/day}$$

where:

a - amyl acetate (pounds)

b - amount of cleanup (pounds)

x - lbs/day

1 - 40% emission capture efficiency

2 - 90% overall emission control

For emission unit P027, Pump maintenance/ parts wash, the daily volatile organic compound (ethanol and ethyl acetate) emission rate shall be determined in accordance with the following equation:

$$(a + b) - c = x \text{ lbs/day}$$

where:

a - ethanol input (lbs)

b - ethyl acetate input (lbs)

c - total recovered spent solvent (lbs)

x - organic compound emission rate (lbs/day)

8. Reporting

This facility shall notify the Regional Air Pollution Control Agency of any daily record showing an exceedance of any of this following:

- a. daily process material usage rate limitation;
and/or
- b. daily allowable emission rate.

A copy of such record shall be sent to the Regional air Pollution Control Agency within thirty days after the exceedance occurs.

This facility shall submit semi-annual reports which list the total process material usage inputs and the total organic compound emission rate for each month for each of the emission units K011, K012, P024, P025 and P027. The reports shall be submitted by February 15 and August 15 and shall cover the previous six calendar months (July through December and January through June, respectively).

9. Control System Monitoring Requirements/Recording, Reporting

This facility shall continuously monitor and record the temperature of the exhaust gases at the inlet (immediately before the catalyst bed) and at the outlet from the catalytic incinerator. The temperature records shall be retained in this facility's files for a period of not less than three years and shall be made available to the director or any authorized representative of the Director for review during normal business hours.

An inlet temperature of not less than 550°F and a temperature difference across the catalyst bed of not less than (A)°F* shall be maintained during operation of the incinerator.

This facility shall submit semi-annual reports which provide the following information for each period during which the incinerator inlet temperature falls below 550°F or the temperature difference across the catalyst bed falls below (A)°F*:

- a. the date of the excursion;
- b. the time interval over which the excursion occurred;
- c. the temperature values during the excursion;
- d. the cause(s) for the excursion; and
- e. the corrective action which has been or will be taken to prevent similar excursions in the future.

This facility shall monitor and record the application rate of Sodium Hydroxide (NaOH) for the packed tower scrubber emission control system associated with emission units P022 and P023.

This facility shall monitor and record the pH of the scrubber liquid. The pH of the circulating scrubbing water shall be maintained not less than 8.0.

This facility shall submit semi-annual reports which provide the following information for any period where the pH was less than 8.0.

- a. the date that the specified pH was not achieved; and
- b. the time interval over which the pH was not achieved.

The reports are in addition to the reporting requirements of OAC rule 3745-15-06.

The reports shall be submitted by February 15 and August 15 of each year and shall cover the previous six calendar months (July through December and January through June, respectively).

*Temperature (A) is to be determined by way of performance testing required by this permit.

10. Preventive Maintenance and Malfunction Abatement Plan

This facility shall initiate and maintain a Preventive Maintenance and Malfunction Abatement Plan (PM & MAP) designed to ensure the control equipment is operating in accordance with the manufacturer's

specifications. Such a PM & MAP shall outline the specific steps taken and/or the specific items checked on a routine basis to ensure the proper operation of the control equipment.

The PM & MAP shall be in writing and shall be submitted to the Regional Air Pollution Control Agency in conjunction with the subsequent permit to operate applications required no later than thirty days after commencement of operation pursuant to OAC rule 3745-35-02(B)(5).

11. NSPS Requirements

Fuel usage in emission unit B004 is limited to natural gas.

This facility shall maintain daily records of the natural gas usage (million ft³) for emission unit B004.

12. Performance Test Requirements

The permittee shall conduct, or have conducted, performance testing of the subject air contaminant source(s) in accordance with procedures approved by the Agency. A copy of the written report shall be submitted and signed by the person responsible for the test, describing the test procedures followed and the results of such tests. The Director or an Ohio EPA representative shall be allowed to witness the tests, examine testing equipment and require the acquisition or submission of data and information necessary to assure that source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

- a. A completed Intent to Test form shall be submitted to the appropriate Ohio EPA District Office or Local Air Pollution Control Agency where the original permit application was filed. This notice shall be made thirty (30) days in advance and shall specify the source operation parameters, the proposed test procedures and the time, date, place and person(s) conducting such tests.
- b. A copy of the test results shall be submitted within thirty (30) days after the completion of the performance test.
- c. Tests shall be performed for the following sources and pollutants:

<u>SOURCE NUMBERS</u>	<u>EXHAUST STACK</u>	<u>POLLUTANTS</u>
K011, K012, P024	107	Toluene, amyl acetate, and total organic compounds
P022, P023	105	HF

P021	103	CO
P026	111	Pb

Additionally, emission testing shall be conducted to determine:

- a. the overall removal efficiency for the fume concentrator system; and
- b. the destruction efficiency for the catalytic incinerator associated with emission units K011, K012, and P024.

13. Capture Efficiency Determination for Emission Unit K012, Frit Coating and Drying

In conjunction with the submittal of the initial intent to test (ITT) notification, this facility shall submit a proposal for determining the capture efficiency for source K012. In accordance with the USEPA guidance memo dated February 7, 1995, *Revised Capture Efficiency Guidance for Control of Volatile Organic Compound Emissions*, the proposal shall be one of the following methods: temporary total enclosure (TTE), data quality objective (DQO), or lower confidence limit (LCL).

14. Performance testing shall be done in accordance with the test methods and procedures specified in OAC rules 3745-21-10(B) and (C).

15. Deminimis Emission Activities

The following is a listing of emission activities identified within the PTI #08-3377 application that were determined to be deminimis pursuant to OAC rule 3745-15-05.

Mask Process

C-101	Frame Degreasing
C-105	Flat Mask annealing
C-107	Flat Mask Degreasing
C-112	Final Wash

Mixing Process

C-116	PVP Mixing
C-117	Hydrogen Peroxide Mixing
C-119	Screen Mixing

BM Process

C-205-1, 2 & 3	PVP Developing, DAG Spraying & Developing
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Screen Process

C-313	Mg(OH) ₂ Spraying
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Bulb Process

C-403	Washing
C-404	Bi ₂ O ₃ Spraying
C-407	Frit Sealing
IMS Process	
C-602	Washing
Electron Gun Process	
C-704	Inspection
Tube Process	
C-801	Sealing
C-802	Pumping
C-803	Reinforcement
C-806	Outer DAG Coating
C-807	Silicone Varnish coating

This facility shall maintain a record onsite which documents that the maximum daily emission rate is less than 10 pounds and therefore the de minimis status of each of the emission activities identified above.