P 832 538 774

Certified Mail Receipt
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

UNITED STATES POSTAL SERVICE

Sent to Mr. John R. Steiner, HS	
Street & No. P. O. Box 883	
P.O., State & ZIP Code Melbourne, FL 32902-0883	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	$
Postmark or Date Mailed: 2-18-92 Permit: AC 05-202415 -203985, -205848 & -49	

PS Form **3800**, June 1990

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece next to the article number.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Mr. John R. Steiner
Dir. of Fac. & Enf. Affairs
Harris Semiconductor
P. O. Box 883
Melbourne, FL 32902-0883

4a. Article Number
P 832 538 774

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
2-20-92

5. Signature (Addressee)
Harris Semiconductor

6. Signature (Agent)
Willie L. Sales

8. Addressee's Address (Only if requested and fee is paid)

PS Form **3811**, October 1990 ☆U.S. GPO: 1990—273-861 **DOMESTIC RETURN RECEIPT**

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

In the matter of an
Application for Permit by:

Mr.John R. Steiner
Director of Facilities and Environmental Affairs
Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32902-0883

DER File Nos. AC 05-202415
AC 05-203985
AC 05-205848
AC 05-205849
Brevard County

_____/

Enclosed are Permit Numbers AC 05-202415, -203985, -205848, and -205849 to modify Buildings 54, 55, 57 and 59 at the Harris Semiconductor facility in Palm Bay, Brevard County, Florida. These permits are issued pursuant to Section(s) 403, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permits pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E., Chief
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400
904-488-1344

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 2/18/92 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to
§120.52(11), Florida Statutes,
with the designated Department
Clerk, receipt of which is hereby
acknowledged.

(Clerk) 2/18/92 (Date)

Copies furnished to:

C. Collins, Central District
C. Triantafyllidis, HS
S. McClarty, P.E., HS

Final Determination

Harris Semiconductor
Brevard County
City of Palm Bay, Florida

Construction Permit Nos.
AC 05-202415
AC 05-203985
AC 05-205848
AC 05-205849

Department of Environmental Regulation
Division of Air Resources Management
Bureau of Air Regulation

February 14, 1992

Final Determination

The construction permit application packages have been reviewed by the Department. Public Notice of the Department's Intent to Issue was published in The Tribune on January 21, 1992. The Technical Evaluation and Preliminary Determination was distributed on January 10, 1992, and available for public inspection at the Department's Central District office and the Department's Bureau of Air Regulation office.

A comment was received via a telephone call from Mr. Constantine Triantafyllidis (Harris Semiconductor) during the public notice period. He noted a typographical error in the VOC allowable emissions for the source/Building 57 in permit No. AC 05-205848, Specific Condition #1, which should have read 3.0 TPY instead of 2.0 TPY. The error has been corrected. Therefore, it is recommended that the construction permits be issued as drafted and as corrected.

30 ORL 05001416 : F54 S01
30 ORL 05001433 : F54 S03
30 ORL 05001434 : F54 S02

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Lawton Chiles, Governor — Carol M. Browner, Secretary

Permittee:
Harris Semiconductor
P. O. Box 883
Melbourne, FL 32902-0883

Permit Number: AC 05-203985
Expiration Date: July 31, 1992
County: Brevard
Latitude/Longitude: 28°01'20"N
80°36'10"W
Project: Building 54 Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1990 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of Building 54, which is an existing source that utilizes hood type work stations for the manufacture of semiconductors, to permit a decrease in the potential acid and the potential/allowable VOC (volatile organic compounds/organic solvents) emissions. The scrubber control systems are:

- F54SO1: a Beverly Pacific 50,000 scfm (43,141 acfm) horizontal cross-flow wet scrubber, using polypropylene packing, and with a PVC mist eliminator, for VOC and acid vapor removal; Model No. PS-50HT;
- F54SO2: a Harrington 17,000 scfm (16,000 acfm) horizontal cross-flow wet scrubber, using PVC packing, and with a PVC mist eliminator, for VOC and acid vapor removal; Model No. ECH 66-9PBS; and,
- F54SO3: a Beverly Pacific 30,000 scfm (29,000 acfm) horizontal cross-flow wet scrubber, using polypropylene packing, and with a PVC mist eliminator, for VOC and acid vapor removal; Model No. PS-24HT.

The building/source is located at the permittee's existing facility located on Palm Bay Road in the City of Palm Bay. The UTM coordinates are Zone 17, 538.7 km East and 3100.9 km North.

The Source Classification Codes are: Major Group 36

o Cold Solvent Cleaning/ Stripping	4-01-003-99	Tons VOC/solvent Consumed

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Construct/Modify Air Pollution Sources, DER Form 17-2.202(1), received October 24, 1991.
2. Technical Evaluation and Preliminary Determination dated January 10, 1992.

Reg. Code: Other

Rule 210 - 1 Time Test Req; Potent. is TTL of All ACIDS

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

a. Have access to and copy any records that must be kept under the conditions of the permit;

b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and,

c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

a. a description of and cause of non-compliance; and,

b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department;

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule; and,

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and,
- the results of such analyses.

GENERAL CONDITIONS:

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The maximum allowable VOC (volatile organic compounds/organic solvents) emissions from Building No. 54 is 73.8 tons per year.

2. The VOC vapor and acid gas exhaust scrubber systems must be operating properly during the working hours.

3. Continuous operation shall be allowed (i.e., 8760 hours per year).

4. Objectionable odors shall not be allowed off plant property pursuant to F.A.C. Rule 17-2.620(2).

5. An inspection and maintenance plan shall be submitted to the DER's Central District office as part of the operating permit application. The plan shall include provisions for the prevention and correction of VOC losses from leaks and equipment malfunctions.

6. By March 31 of each calendar year, an annual operating report shall be submitted to the DER's Central District office demonstrating compliance with the VOC emissions limit for Building 54.

7. Each scrubber system's efficiency and actual VOC emissions shall be established by a sampling and analysis program, which includes:

a) a sample shall be taken annually from each scrubber stack and analyzed using EPA Method 25A, pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A;
b) the DER's Central District office shall receive at least 15 days notice in writing prior to sampling;
c) the report, summarizing the sampling results, shall be submitted to the DER's Central District office within 45 days after the last test run is completed;
d) the efficiency of each control system shall be established by tests (inlet and outlet) once every five years for operation permit renewal; and,

SPECIFIC CONDITIONS:

e) the annual VOC emissions shall be calculated using actual emissions data derived from stack test sampling results and the actual operating hours for the affected source/ building.

8. This permit will supercede all other permits previously issued on this source/Building No. 54.

9. The source/Building No. 54 is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4 and 40 CFR (July, 1990 version).

10. Projected potential acid emissions are 9.7 TPY.

11. Building No. 54 is subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation - Problems.

12. Any modification pursuant to F.A.C. Rule 17-2.100, Definitions-Modification, shall be submitted to the DER's Central District office and Bureau of Air Regulation (BAR) office for approval.

13. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the DER's BAR prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

14. An application for an operation permit must be submitted to the DER's Central District office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

PERMITTEE:
Harris Semiconductor

Permit Number: AC 05-203985
Expiration Date: July 31, 1992

SPECIFIC CONDITIONS:

Issued this 17th day
of February, 1992

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

STEVE SMALLWOOD, P.E., Director
Division of Air Resources
Management

30 ORL 05 001432:F55501

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Lawton Chiles, Governor — Carol M. Browner, Secretary

Permittee:
Harris Semiconductor
P. O. Box 883
Melbourne, FL 32902-0883

Permit Number: AC 05-202415
Expiration Date: July 31, 1992
County: Brevard
Latitude/Longitude: 28°01'20"N
80°36'10"W
Project: Building 55 Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1990 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of Building 55, which is an existing source for the collection, short term storage, and shipping point for waste chemicals from the facility, to permit an increase in the potential/ allowable VOC (volatile organic compounds/organic solvents) emissions. The scrubber control system is:

o F55SO1: a Tri-Mer Corp. 9,500 scfm (7,500 acfm) horizontal counter-flow wet scrubber, using a polypropylene filter pack, and with a mist eliminator, for VOC and acid vapor removal; Model No. F/W 3.

The building/source is located at the permittee's existing facility located on Palm Bay Road in the City of Palm Bay. The UTM coordinates are Zone 17, 538.7 km East and 3100.9 km North.

The Source Classification Codes are: Major Group 36

o Cold Solvent Cleaning/ Stripping	4-01-003-99	Tons VOC/solvent Consumed

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Construct/Modify Air Pollution Sources, DER Form 17-2.202(1), received October 24, 1991.
2. Technical Evaluation and Preliminary Determination dated January 10, 1992.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

a. Have access to and copy any records that must be kept under the conditions of the permit;

b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and,

c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

a. a description of and cause of non-compliance; and,

b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department;

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule; and,

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and,
- the results of such analyses.

GENERAL CONDITIONS:

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The maximum allowable VOC (volatile organic compounds/organic solvents) emissions from Building No. 55 is 1.0 tons per year.

2. The VOC vapor and acid gas exhaust scrubber systems must be operating properly during the working hours.

3. Continuous operation shall be allowed (i.e., 8760 hours per year).

4. Objectionable odors shall not be allowed off plant property pursuant to F.A.C. Rule 17-2.620(2).

5. An inspection and maintenance plan shall be submitted to the DER's Central District office as part of the operating permit application. The plan shall include provisions for the prevention and correction of VOC losses from leaks and equipment malfunctions.

6. By March 31 of each calendar year, an annual operating report shall be submitted to the DER's Central District office demonstrating compliance with the VOC emissions limit for Building 55.

7. Each scrubber system's efficiency and actual VOC emissions shall be established by a sampling and analysis program, which includes:
   a) a sample shall be taken annually from each scrubber stack and analyzed using EPA Method 25A, pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A;
   b) the DER's Central District office shall receive at least 15 days notice in writing prior to sampling;
   c) the report, summarizing the sampling results, shall be submitted to the DER's Central District office within 45 days after the last test run is completed;
   d) the efficiency of each control system shall be established by tests (inlet and outlet) once every five years for operation permit renewal; and,

SPECIFIC CONDITIONS:

e) the annual VOC emissions shall be calculated using actual emissions data derived from stack test sampling results and the actual operating hours for the affected source/building.

8. This permit will supercede all other permits previously issued on this source/Building No. 55.

9. The source/Building No. 55 is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4 and 40 CFR (July, 1990 version).

10. Projected potential acid emissions are 0.1 TPY.

11. Building No. 55 is subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation - Problems.

12. Any modification pursuant to F.A.C. Rule 17-2.100, Definitions-Modification, shall be submitted to the DER's Central District office and Bureau of Air Regulation (BAR) office for approval.

13. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the DER's BAR prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

14. An application for an operation permit must be submitted to the DER's Central District office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

PERMITTEE:
Harris Semiconductor

Permit Number: AC 05-202415
Expiration Date: July 31, 1992

SPECIFIC CONDITIONS:

Issued this 17th day
of February, 1992

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

STEVE SMALLWOOD, P.E., Director
Division of Air Resources Management

30 ORL 0500141:F5736

Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor — Carol M. Browner, Secretary

Permittee:
Harris Semiconductor
P. O. Box 883
Melbourne, FL 32902-0883

Permit Number: AC 05-205848
Expiration Date: July 31, 1992
County: Brevard
Latitude/Longitude: 28°01'20"N
80°36'10"W
Project: Building 57 Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1990 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of Building 57, which is an existing source whose primary manufacturing operations are soldering and plating of integrated circuit parts, to permit an increase in the potential/allowable VOC (volatile organic compounds/organic solvents) emissions. The scrubber control system is:

o F57SO1: a Tri-Mer Corp. 13,500 scfm (9,328 acfm) horizontal counter-flow wet scrubber, using a polypropylene filter pack, and with a mist eliminator, for VOC and acid vapor removal; Model No. F/W 5.

The building/source is located at the permittee's existing facility located on Palm Bay Road in the City of Palm Bay. The UTM coordinates are Zone 17, 538.7 km East and 3100.9 km North.

The Source Classification Codes are: Major Group 36

o Cold Solvent Cleaning/ Stripping	4-01-003-99	Tons VOC/solvent Consumed

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Construct/Modify Air Pollution Sources, DER Form 17-2.202(1), received October 24, 1991.
2. Technical Evaluation and Preliminary Determination dated January 10, 1992.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

a. Have access to and copy any records that must be kept under the conditions of the permit;

b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and,

c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

a. a description of and cause of non-compliance; and,

b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department;

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule; and,

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and,
- the results of such analyses.

GENERAL CONDITIONS:

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The maximum allowable VOC (volatile organic compounds/organic solvents) emissions from Building No. 57 is 3.0 tons per year.

2. The VOC vapor and acid gas exhaust scrubber systems must be operating properly during the working hours.

3. Continuous operation shall be allowed (i.e., 8760 hours per year).

4. Objectionable odors shall not be allowed off plant property pursuant to F.A.C. Rule 17-2.620(2).

5. An inspection and maintenance plan shall be submitted to the DER's Central District office as part of the operating permit application. The plan shall include provisions for the prevention and correction of VOC losses from leaks and equipment malfunctions.

6. By March 31 of each calendar year, an annual operating report shall be submitted to the DER's Central District office demonstrating compliance with the VOC emissions limit for Building 57.

7. Each scrubber system's efficiency and actual VOC emissions shall be established by a sampling and analysis program, which includes:

a) a sample shall be taken annually from each scrubber stack and analyzed using EPA Method 25A, pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A;
b) the DER's Central District office shall receive at least 15 days notice in writing prior to sampling;
c) the report, summarizing the sampling results, shall be submitted to the DER's Central District office within 45 days after the last test run is completed;
d) the efficiency of each control system shall be established by tests (inlet and outlet) once every five years for operation permit renewal; and,

SPECIFIC CONDITIONS:

e) the annual VOC emissions shall be calculated using actual emissions data derived from stack test sampling results and the actual operating hours for the affected source/building.

8. This permit will supercede all other permits previously issued on this source/Building No. 57.

9. The source/Building No. 57 is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4 and 40 CFR (July, 1990 version).

10. Projected potential acid emissions are 0.2 TPY.

11. Building No. 57 is subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation - Problems.

12. Any modification pursuant to F.A.C. Rule 17-2.100, Definitions-Modification, shall be submitted to the DER's Central District office and Bureau of Air Regulation (BAR) office for approval.

13. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the DER's BAR prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

14. An application for an operation permit must be submitted to the DER's Central District office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

PERMITTEE:
Harris Semiconductor

Permit Number: AC 05-205848
Expiration Date: July 31, 1992

SPECIFIC CONDITIONS:

Issued this 17th day
of February, 1992

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

STEVE SMALLWOOD, P.E., Director
Division of Air Resources
Management

30 ORL 0500141D:F59302
30 ORL 0500141I:F59301

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

Permittee:
Harris Semiconductor
P. O. Box 883
Melbourne, FL 32902-0883

Permit Number: AC 05-205849
Expiration Date: July 31, 1992
County: Brevard
Latitude/Longitude: 28°01'20"N
80°36'10"W
Project: Building 59 Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1990 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of Building 59, which is an existing source used for the manufacture of semiconductors, to permit an increase in the potential acid emissions. The scrubber control and exhaust systems are:

Reliability Shop:
- o F59SO1: a Beverly Pacific 40,000 scfm (30,838 acfm) horizontal cross-flow wet scrubber, using polypropylene packing, and with a PVC mist eliminator for acid vapor removal; Model No. PS-40HT;
- o F59SO2: a Beverly Pacific 20,000 scfm (10,972 acfm) vertical counter-current wet scrubber, using polypropylene packing, with a PVC mist eliminator, for VOC (volatile organic compounds/organic solvents) vapor removal; Model No. PS-24VT; and,

Probe Card Repair Shop:
- o F59EO4: an exhaust fan.

The building/source is located at the permittee's existing facility located on Palm Bay Road in the City of Palm Bay. The UTM coordinates are Zone 17, 538.7 km East and 3100.9 km North.

The Source Classification Codes are: Major Group 36

o Cold Solvent Cleaning/ Stripping	4-01-003-99	Tons VOC/solvent Consumed

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:
1. Application to Construct/Modify Air Pollution Sources, DER Form 17-2.202(1), received October 24, 1991.
2. Technical Evaluation and Preliminary Determination dated January 10, 1992.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

   a. Have access to and copy any records that must be kept under the conditions of the permit;

   b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and,

   c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

   Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

   a. a description of and cause of non-compliance; and,

   b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

   The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department;

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule; and,

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and,
- the results of such analyses.

GENERAL CONDITIONS:

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The maximum allowable VOC (volatile organic compounds/organic solvents) emissions from Building No. 59 is 8.4 tons per year.

2. The VOC vapor and acid gas exhaust scrubber systems must be operating properly during the working hours.

3. Continuous operation shall be allowed (i.e., 8760 hours per year).

4. Objectionable odors shall not be allowed off plant property pursuant to F.A.C. Rule 17-2.620(2).

5. An inspection and maintenance plan shall be submitted to the DER's Central District office as part of the operating permit application. The plan shall include provisions for the prevention and correction of VOC losses from leaks and equipment malfunctions.

6. By March 31 of each calendar year, an annual operating report shall be submitted to the DER's Central District office demonstrating compliance with the VOC emissions limit for Building 59.

7. Each scrubber system's efficiency and actual VOC emissions shall be established by a sampling and analysis program, which includes:

a) a sample shall be taken annually from each scrubber stack and analyzed using EPA Method 25A, pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A;
b) the DER's Central District office shall receive at least 15 days notice in writing prior to sampling;
c) the report, summarizing the sampling results, shall be submitted to the DER's Central District office within 45 days after the last test run is completed;
d) the efficiency of each control system shall be established by tests (inlet and outlet) once every five years for operation permit renewal; and,

SPECIFIC CONDITIONS:

e) the annual VOC emissions shall be calculated using actual emissions data derived from stack test sampling results and the actual operating hours for the affected source/ building.

8. This permit will supercede all other permits previously issued on this source/Building No. 59.

9. The source/Building No. 59 is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4 and 40 CFR (July, 1990 version).

10. Projected potential acid emissions are 0.3 TPY.

11. Building No. 59 is subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation - Problems.

12. Any modification pursuant to F.A.C. Rule 17-2.100, Definitions-Modification, shall be submitted to the DER's Central District office and Bureau of Air Regulation (BAR) office for approval.

13. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the DER's BAR prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

14. An application for an operation permit must be submitted to the DER's Central District office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

PERMITTEE:
Harris Semiconductor

Permit Number: AC 05-205849
Expiration Date: July 31, 1992

SPECIFIC CONDITIONS:

Issued this 17th day
of February, 1992

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

STEVE SMALLWOOD, P.E., Director
Division of Air Resources
Management

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To:	Location:
To:	Location:
To:	Location:
From:	Date:

Interoffice Memorandum

TO: Steve Smallwood

FROM: Clair Fancy

DATE: February 13, 1992

SUBJ: Approval of Construction Permits Nos. AC 05-202415
AC 05-203985
AC 05-205848
AC 05-205849

Harris Semiconductor

Attached for your approval and signature are construction permits for modifications prepared by the Bureau of Air Regulation for the above referenced company to allow an increase in VOC allowable emission (Bldgs. 55 & 57), an increase in potential acid emissions (Bldg. 59), and a decrease in VOC allowable and potential acid emissions. The facility is located in the city of Palm Bay, Brevard County, Florida. A comment was received during the public notice period regarding a typographical error in a permit (i.e., AC 05-205848: Bldg. 57), which has been corrected.

Day 90, after which these permits will be issued by default, is February 17, 1992.

I recommend your approval and signature.

CF/BM/rbm

Check Sheet

Company Name: HARRIS SEMI CONDUCTOR
Permit Number: AC 05-203985, -202415, -205848, -205849
PSD Number:
Permit Engineer:

Application:

- [x] Initial Application
  - [ ] Incompleteness Letters
  - [ ] Responses
  - [ ] Waiver of Department Action
  - [ ] Department Response
  - [ ] Other

Cross References:

- [ ]
- [ ]
- [ ]

Intent:

- [x] Intent to Issue
- [x] Notice of Intent to Issue
- [x] Technical Evaluation
- [ ] BACT Determination
- [x] Unsigned Permit (4)
  - Correspondence with:
    - [ ] EPA
    - [ ] Park Services
    - [ ] Other
- [x] Proof of Publication
  - [ ] Petitions - (Related to extensions, hearings, etc.)
  - [ ] Waiver of Department Action
  - [ ] Other

Final Determination:

- [x] Final Determination
- [4] Signed Permit
- [ ] BACT Determination
- [ ] Other

Post Permit Correspondence:

- [ ] Extensions/Amendments/Modifications
- [ ] Other

CAPE PUBLICATIONS, INC.

The Times
Published Weekly on Wednesday

THE TRIBUNE
Published Weekly on Wednesday

ST☆R-ADVOCATE
Published Weekly on Wednesday

RECEIVED
JAN 23 1992
Bureau of
Air Regulation

FLORIDA TODAY
Published Daily

STATE OF FLORIDA
COUNTY OF BREVARD

Before the undersigned authority personally appeared **Sandra N. Thomas** who on oath says that he/she is **Legal Advertising Clerk** of the **FLORIDA TODAY**, a newspaper published in Brevard County, Florida; that the attached copy of advertising being a Legal Notice in the matter of Harris Semiconductor in the Court was published in the **FLORIDA TODAY NEWSPAPER** in the issues of January 21, 1992

Affiant further says that the said **FLORIDA TODAY NEWSPAPER** is a newspaper published in said Brevard County, Florida and that the said newspaper has heretofore been continuously published in said Brevard County, Florida regularly as stated above, and has been entered as second class mail matter at the post office in **COCOA**, said Brevard County, Florida for a period of one year next preceeding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in said newspaper.

cc: D. Mitchell
A. Zahm, e Dist

Sandra N. Thomas

Sworn and subscribed to before me this

21 day of January A.D.,

Leah Smith

NOTARY PUBLIC STATE OF FLORIDA

OFFICIAL SEAL
LEAH SMITH
MY COMMISSION EXPIRES
JUNE 07, 1992

TO-109584-1T-1/21,1992,Tues

State of Florida Department of Environmental Regulation Notice of Intent to Issue

The Department of Environmental Regulation (Department) hereby gives notice of its intent to issue permits (AC 05-203985: Bldg. 54; AC 05-202415: Bldg. 55; AC 05-205848: Bldg. 57; and, AC 05-205849: Bldg. 59) to Harris Semiconductor, Post Office Box 883, Melbourne, Florida 32902-0883. The facility is located along Palm Bay Road in the City of Palm Bay. The project includes an increase in the potential/allowable volatile organic compounds/organic solvents (VOC) emissions for sources/Bldgs. 55 & 57, an increase in the potential acid emissions for source/Bldg. 59, and a decrease in the potential/allowable VOC and the potential acid emissions for source/Bldg. 54. Even though there will be a no net change in the facility's total potential pollutant emissions (o.e., VOC and acid), there will be a modification of the federally enforceable permit conditions currently applicable to each source. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department's Permit File Number and the county in which the project is proposed;

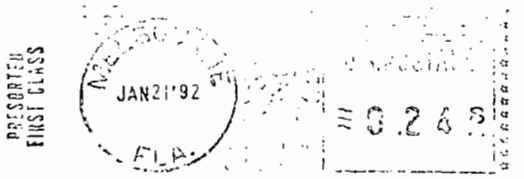
(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

FLORIDA TODAY/USA TODAY
P.O. Box 363000
Melbourne, Florida 32936-3000
G2



State of Florida
Dept. of Environmental Regulation
Bureau of Air Regulation
2600 Blair Stone Rd
Tallahassee, Fl 32399-2400

Attn: C H Fancy, PE

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applications have the right to petition to become a party to the proceedings. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

The applications are available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Department of Environmental Regulation Central District
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767

Any person may send written comments on the proposed action to Mr. Preston Lewis at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

P 832 538 761

Certified Mail Receipt
No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

UNITED STATES POSTAL SERVICE

Sent to Mr. John R. Steiner, Harris Semiconductor	
Street & No. P. O. Box 883	
P.O., State & ZIP Code Melbourne, FL 32902-0883	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	$
Postmark or Date Mailed: 1-10-92 Permit: AC 05-202415 -203985, -205848, -49	

PS Form **3800**, June 1990

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece next to the article number.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. John R. Steiner
Director Fo Facilities and
Environmental Affairs
Harris Semiconductor
P. O. Box 883
Melbourne, FL 32902-0883

4a. Article Number
P 832 538 761

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)

6. Signature (Agent)

RECEIVED JUL 13 1992 A.M. MELBOURNE FLORIDA

PS Form **3811**, October 1990 ☆U.S. GPO: 1990—273-861 **DOMESTIC RETURN RECEIPT**

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

January 10, 1992

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. John R. Steiner
Director of Facilities and Environmental Affairs
Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32902-0883

Dear Mr. Steiner:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permits for Harris Semiconductor to modify its facility (i.e., Bldgs./sources 54, 55, 57 & 59), which includes an increase in the potential/allowable volatile organic compounds/organic solvents (VOC) emissions (55 & 57), an increase in the potential acid emissions (59), and a decrease in the potential/allowable VOC and the potential acid emissions (54). Even though there will be no net change in the facility's total potential pollutant emissions, there will be a modification of the federally enforceable permit conditions currently applicable to each source.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Preston Lewis of the Bureau of Air Regulation.

Sincerely,

C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

CHF/BM/rbm

Attachments

c: C. Collins, Central District
C. Triantafyllidis, HS
S. McClarty, P.E., HS

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of
Application for Permits by:

Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32902-0883

DER File Nos. AC 05-202415
AC 05-203985
AC 05-205848
AC 05-205849

INTENT TO ISSUE

The Department of Environmental Regulation (Department) hereby gives notice of its intent to issue air construction permits (copies attached) for the proposed projects as detailed in the applications specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Harris Semiconductor, applied on October 24, 1991, to the Department for permits to increase the potential/allowable volatile organic compounds/organic solvents (VOC) emissions in sources/Bldgs. 55 and 57, to increase the potential acid emissions in source/Bldg. 59, and to decrease the potential/allowable VOC and the potential acid emissions in source/Bldg. 54. Even though there will be no net change in the facility's total potential pollutant emissions, there will be a modification of the federally enforceable permit conditions currently applicable to each source.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that air construction permits are required for the proposed work.

Pursuant to Section 403.815, F.S., and Department Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permits. The notice shall be published one time only within 30 days, in the legal

ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used must be the one with significant circulation in the area that may be affected by the permits. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400 (904-488-1344), within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permits.

The Department will issue the permits with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applications have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

Copies furnished to:

c: C. Collins, Central District
C. Triantafyllidis, HS
S. McClarty, P.E., HS

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 1-10-92.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

[signature] 1-10-92
Clerk Date

State of Florida
Department of Environmental Regulation
Notice of Intent to Issue

The Department of Environmental Regulation (Department) hereby gives notice of its intent to issue permits (AC 05-203985: Bldg. 54; AC 05-202415: Bldg. 55; AC 05-205848: Bldg. 57; and, AC 05-205849: Bldg. 59) to Harris Semiconductor, Post Office Box 883, Melbourne, Florida 32902-0883. The facility is located along Palm Bay Road in the City of Palm Bay. The project includes an increase in the potential/allowable volatile organic compounds/organic solvents (VOC) emissions for sources/Bldgs. 55 & 57, an increase in the potential acid emissions for source/Bldg. 59, and a decrease in the potential/allowable VOC and the potential acid emissions for source/Bldg. 54. Even though there will be a no net change in the facility's total potential pollutant emissions (i.e., VOC and acid), there will be a modification of the federally enforceable permit conditions currently applicable to each source. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department's Permit File Number and the county in which the project is proposed;
(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
(d) A statement of the material facts disputed by Petitioner, if any;
(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applications have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

The applications are available for public inspection during business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Department of Environmental Regulation
Central District
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803-3767

Any person may send written comments on the proposed action to Mr. Preston Lewis at the Department's Tallahassee address. All comments received within 14 days of the publication of this notice will be considered in the Department's final determination.

Technical Evaluation
and
Preliminary Determination

Harris Semiconductor
Brevard County
Palm Bay, Florida

Construction Permit Numbers:
AC 05-202415
AC 05-203985
AC 05-205848
AC 05-205849

Department of Environmental Regulation
Division of Air Resources Management
Bureau of Air Regulation

January 10, 1992

I. Application

A. Applicant

Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32902-0883

B. Project and Location

The applicant intends to modify its existing facility (i.e., Bldgs./sources 54, 55, 57 & 59), which includes an increase in the potential/allowable volatile organic compounds/organic solvents (VOC) emissions (55 & 57), an increase in the potential acid emissions (59), and a decrease in the potential/allowable VOC and the potential acid emissions (54). Even though there will be no net change in the facility's total potential pollutant emissions (i.e., VOC and acid), there will be a modification of the federally enforceable permit conditions currently applicable to each source.

The existing facility is located on Palm Bay Road in the City of Palm Bay, Brevard County, Florida.

The UTM coordinates are Zone 17, 538.7 km North and 3100.9 km West.

C. Process and Controls

Since the project's intent is to provide a buffer above the actual emissions of the sources (increases) and to bring the potential emissions more in line with source operations (decreases), there will be no change in the processing activities and the control systems.

D. The Standard Industrial Classification Codes:

o Buildings 54, 55, 57 & 59:

Cold Solvent Cleaning/ Stripping	40-01-003-99	Tons VOC/Solvent Consumed

II. Rule Applicability

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July 1, 1990 version).

The application packages were deemed complete on October 24, 1991.

The existing facility is located in an area designated attainment for all pollutants.

Since the facility is not one of those contained in Table 500-1, F.A.C. Chapter 17-2, the VOC threshold for triggering new source review pursuant to F.A.C. Rule 17-2.500(5), is 250 TPY.

The following table presents the net projected potential pollutant emissions associated with the proposed modification:

Table 1

Source	Net Potential Pollutant Emissions (TPY) VOC	Acid
Building 54	-1.7	-0.2
Building 55	+0.7	
Building 57	+1.0	
Building 59		+0.2
Total:	0.0	0.0

Note: o Allowed continuous operation (i.e., 8760 hrs/yr).
o Building 54 has a decrease in the allowable/potential VOC emissions of 1.7 TPY and is not creditable.

The following table presents the projected potential pollutant emissions from the current existing facility:

Table 2

Source	Potential Pollutant Emissions (TPY) VOC	SO_2	H_2S
Building 4	14.3		
51	34.7		
54	75.5		
55	0.3 (fugitive)		
57	2.0		
58	7.6		
59	8.4		
60	2.6		
61	0.3		
62	1.0		
63	13.5		
IGWS: Flare System		43.8	0.35
Total:	160.2	43.8	0.35

Note: o Allowed continuous operation (i.e., 8760 hrs/yr).

The following table presents the projected potential pollutant emissions from the facility after the modification:

Table 3

Source	Potential Pollutant Emissions (TPY) VOC	SO_2	H_2S
Building 4	14.3		
51	34.7		
54	73.8		
55	1.0 (fugitive)		
57	3.0		
58	7.6		
59	8.4		
60	2.6		
61	0.3		
62	1.0		
63	13.5		
IGWS: Flare System		43.8	0.35
Total:	160.2	43.8	0.35

Note: o Allowed continuous operation (i.e., 8760 hrs/yr).

Based on the tables, the proposed project is a minor modification (+0.0 total TPY) to a major facility for VOC due to source potential emission increases and decreases, which will require changes in the federally enforceable conditions of each source's current permit. Therefore, the potential pollutant emissions shall be subject to review in accordance with F.A.C. Rule 17-2.520, Sources Not Subject to PSD or Nonattainment Requirements.

Since there is no specific emission limiting standard contained in F.A.C. Rule 17-2.600 nor are there any standards of performance for new stationary sources contained in F.A.C. Rule 17-2.660, the modification to each source/building will be permitted in accordance with F.A.C. Rule 17-2.620, General Pollutant Emission Limiting Standards.

In F.A.C. Rule 17-2.620(1)(a), no person shall store, pump, handle, process, load, unload or use in any process or installation volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. Pursuant to F.A.C. Rule 17-2.620(2), no person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. Objectionable odor is defined as any odor present in the outdoor atmosphere, which by itself or in combination with other odors, is or may be harmful or injurious to

human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance according to F.A.C. Rule 17-2.100, Definitions-Objectionable Odor.

The sources/buildings are subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation-Problems.

III. Summary of Emissions

A. Emission Limitations

The regulated pollutant emissions from Buildings 54, 55, 57 and 59, are VOC. Various acid gases are also being emitted during the manufacturing operations in these buildings. There are no specific emission limiting standards for these specific acids; however, the acid vapors will be scrubbed to reduce emissions.

The following table presents the resulting project's allowable VOC emissions and potential acid vapor emissions from each source/building:

Table 4

Source	Maximum Allowable Pollutant Emissions/Limitations VOC	Potential Acid Emissions
Building 54	73.8	9.7
Building 55	1.0	
Building 57	3.0	
Building 59		0.3

Note: o Allowed continuous operations (i.e., 8760 hrs/yr).

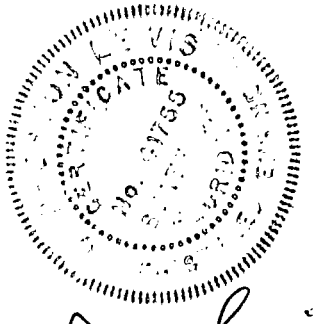
The permitted emissions/limitations are in compliance with all requirements of F.A.C. Chapters 17-2 and 17-4.

B. Air Quality Impacts

From a technical review of the application packages, which shows no net change in the potential pollutant emissions, an air quality analysis is not required.

IV. Conclusion

Based on the information provided by Harris Semiconductor, the Department has reasonable assurance that the proposed modifications to Buildings/sources 54, 55, 57 and 59, which shows no net change in the facility's total potential pollutant emissions (i.e., VOC and acid), but requires a change in the federally enforceable conditions of each source's current permit (i.e., modification), as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.



41755

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Lawton Chiles, Governor — Carol M. Browner, Secretary

Permittee:
Harris Semiconductor
P. O. Box 883
Melbourne, FL 32902-0883

Permit Number: AC 05-203985
Expiration Date: July 31, 1992
County: Brevard
Latitude/Longitude: 28°01'20"N
80°36'10"W
Project: Building 54 Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1990 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of Building 54, which is an existing source that utilizes hood type work stations for the manufacture of semiconductors, to permit a decrease in the potential acid and the potential/allowable VOC (volatile organic compounds/organic solvents) emissions. The scrubber control systems are:

- o F54SO1: a Beverly Pacific 50,000 scfm (43,141 acfm) horizontal cross-flow wet scrubber, using polypropylene packing, and with a PVC mist eliminator, for VOC and acid vapor removal; Model No. PS-50HT;
- o F54SO2: a Harrington 17,000 scfm (16,000 acfm) horizontal cross-flow wet scrubber, using PVC packing, and with a PVC mist eliminator, for VOC and acid vapor removal; Model No. ECH 66-9PBS; and,
- o F54SO3: a Beverly Pacific 30,000 scfm (29,000 acfm) horizontal cross-flow wet scrubber, using polypropylene packing, and with a PVC mist eliminator, for VOC and acid vapor removal; Model No. PS-24HT.

The building/source is located at the permittee's existing facility located on Palm Bay Road in the City of Palm Bay. The UTM coordinates are Zone 17, 538.7 km East and 3100.9 km North.

The Source Classification Codes are: Major Group 36

o Cold Solvent Cleaning/ Stripping	4-01-003-99	Tons VOC/solvent Consumed

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Construct/Modify Air Pollution Sources, DER Form 17-2.202(1), received October 24, 1991.
2. Technical Evaluation and Preliminary Determination dated January 10, 1992.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

a. Have access to and copy any records that must be kept under the conditions of the permit;

b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and,

c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

a. a description of and cause of non-compliance; and,

b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department;

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule; and,

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and,
- the results of such analyses.

GENERAL CONDITIONS:

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The maximum allowable VOC (volatile organic compounds/organic solvents) emissions from Building No. 54 is 73.8 tons per year.

2. The VOC vapor and acid gas exhaust scrubber systems must be operating properly during the working hours.

3. Continuous operation shall be allowed (i.e., 8760 hours per year).

4. Objectionable odors shall not be allowed off plant property pursuant to F.A.C. Rule 17-2.620(2).

5. An inspection and maintenance plan shall be submitted to the DER's Central District office as part of the operating permit application. The plan shall include provisions for the prevention and correction of VOC losses from leaks and equipment malfunctions.

6. By March 31 of each calendar year, an annual operating report shall be submitted to the DER's Central District office demonstrating compliance with the VOC emissions limit for Building 54.

7. Each scrubber system's efficiency and actual VOC emissions shall be established by a sampling and analysis program, which includes:
   a) a sample shall be taken annually from each scrubber stack and analyzed using EPA Method 25A, pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A;
   b) the DER's Central District office shall receive at least 15 days notice in writing prior to sampling;
   c) the report, summarizing the sampling results, shall be submitted to the DER's Central District office within 45 days after the last test run is completed;
   d) the efficiency of each control system shall be established by tests (inlet and outlet) once every five years for operation permit renewal; and,

SPECIFIC CONDITIONS:

e) the annual VOC emissions shall be calculated using actual emissions data derived from stack test sampling results and the actual operating hours for the affected source/ building.

8. This permit will supercede all other permits previously issued on this source/Building No. 54.

9. The source/Building No. 54 is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4 and 40 CFR (July, 1990 version).

10. Projected potential acid emissions are 9.7 TPY.

11. Building No. 54 is subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation - Problems.

12. Any modification pursuant to F.A.C. Rule 17-2.100, Definitions-Modification, shall be submitted to the DER's Central District office and Bureau of Air Regulation (BAR) office for approval.

13. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the DER's BAR prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

14. An application for an operation permit must be submitted to the DER's Central District office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

PERMITTEE:
Harris Semiconductor

Permit Number: AC 05-203985
Expiration Date: July 31, 1992

SPECIFIC CONDITIONS:

Issued this _____ day
of _____, 1992

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

_____

STEVE SMALLWOOD, P.E., Director
Division of Air Resources
Management

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Lawton Chiles, Governor — Carol M. Browner, Secretary

Permittee:
Harris Semiconductor
P. O. Box 883
Melbourne, FL 32902-0883

Permit Number: AC 05-202415
Expiration Date: July 31, 1992
County: Brevard
Latitude/Longitude: 28°01'20"N
80°36'10"W
Project: Building 55 Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1990 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of Building 55, which is an existing source for the collection, short term storage, and shipping point for waste chemicals from the facility, to permit an increase in the potential/allowable VOC (volatile organic compounds/organic solvents) emissions. The scrubber control system is:

o F55S01: a Tri-Mer Corp. 9,500 scfm (7,500 acfm) horizontal counter-flow wet scrubber, using a polypropylene filter pack, and with a mist eliminator, for VOC and acid vapor removal; Model No. F/W 3.

The building/source is located at the permittee's existing facility located on Palm Bay Road in the City of Palm Bay. The UTM coordinates are Zone 17, 538.7 km East and 3100.9 km North.

The Source Classification Codes are: Major Group 36

o Cold Solvent Cleaning/ Stripping	4-01-003-99	Tons VOC/solvent Consumed

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Construct/Modify Air Pollution Sources, DER Form 17-2.202(1), received October 24, 1991.
2. Technical Evaluation and Preliminary Determination dated January 10, 1992.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

a. Have access to and copy any records that must be kept under the conditions of the permit;

b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and,

c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

a. a description of and cause of non-compliance; and,

b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department;

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule; and,

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and,
- the results of such analyses.

GENERAL CONDITIONS:

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The maximum allowable VOC (volatile organic compounds/organic solvents) emissions from Building No. 55 is 1.0 tons per year.

2. The VOC vapor and acid gas exhaust scrubber systems must be operating properly during the working hours.

3. Continuous operation shall be allowed (i.e., 8760 hours per year).

4. Objectionable odors shall not be allowed off plant property pursuant to F.A.C. Rule 17-2.620(2).

5. An inspection and maintenance plan shall be submitted to the DER's Central District office as part of the operating permit application. The plan shall include provisions for the prevention and correction of VOC losses from leaks and equipment malfunctions.

6. By March 31 of each calendar year, an annual operating report shall be submitted to the DER's Central District office demonstrating compliance with the VOC emissions limit for Building 55.

7. Each scrubber system's efficiency and actual VOC emissions shall be established by a sampling and analysis program, which includes:

a) a sample shall be taken annually from each scrubber stack and analyzed using EPA Method 25A, pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A;
b) the DER's Central District office shall receive at least 15 days notice in writing prior to sampling;
c) the report, summarizing the sampling results, shall be submitted to the DER's Central District office within 45 days after the last test run is completed;
d) the efficiency of each control system shall be established by tests (inlet and outlet) once every five years for operation permit renewal; and,

SPECIFIC CONDITIONS:

e) the annual VOC emissions shall be calculated using actual emissions data derived from stack test sampling results and the actual operating hours for the affected source/building.

8. This permit will supercede all other permits previously issued on this source/Building No. 55.

9. The source/Building No. 55 is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4 and 40 CFR (July, 1990 version).

10. Projected potential acid emissions are 0.1 TPY.

11. Building No. 55 is subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation - Problems.

12. Any modification pursuant to F.A.C. Rule 17-2.100, Definitions-Modification, shall be submitted to the DER's Central District office and Bureau of Air Regulation (BAR) office for approval.

13. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the DER's BAR prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

14. An application for an operation permit must be submitted to the DER's Central District office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

PERMITTEE:
Harris Semiconductor

Permit Number: AC 05-202415
Expiration Date: July 31, 1992

SPECIFIC CONDITIONS:

Issued this _____ day
of _____, 1992

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

_____

STEVE SMALLWOOD, P.E., Director
Division of Air Resources
Management

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

Permittee:
Harris Semiconductor
P. O. Box 883
Melbourne, FL 32902-0883

Permit Number: AC 05-205848
Expiration Date: July 31, 1992
County: Brevard
Latitude/Longitude: 28°01'20"N
80°36'10"W
Project: Building 57 Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1990 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of Building 57, which is an existing source whose primary manufacturing operations are soldering and plating of integrated circuit parts, to permit an increase in the potential/ allowable VOC (volatile organic compounds/organic solvents) emissions. The scrubber control system is:

o F57SO1: a Tri-Mer Corp. 13,500 scfm (9,328 acfm) horizontal counter-flow wet scrubber, using a polypropylene filter pack, and with a mist eliminator, for VOC and acid vapor removal; Model No. F/W 5.

The building/source is located at the permittee's existing facility located on Palm Bay Road in the City of Palm Bay. The UTM coordinates are Zone 17, 538.7 km East and 3100.9 km North.

The Source Classification Codes are: Major Group 36

o Cold Solvent Cleaning/ Stripping	4-01-003-99	Tons VOC/solvent Consumed

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Construct/Modify Air Pollution Sources, DER Form 17-2.202(1), received October 24, 1991.
2. Technical Evaluation and Preliminary Determination dated January 10, 1992.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

a. Have access to and copy any records that must be kept under the conditions of the permit;

b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and,

c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

a. a description of and cause of non-compliance; and,

b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department;

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule; and,

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and,
- the results of such analyses.

GENERAL CONDITIONS:

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The maximum allowable VOC (volatile organic compounds/organic solvents) emissions from Building No. 57 is 2.0 tons per year.

2. The VOC vapor and acid gas exhaust scrubber systems must be operating properly during the working hours.

3. Continuous operation shall be allowed (i.e., 8760 hours per year).

4. Objectionable odors shall not be allowed off plant property pursuant to F.A.C. Rule 17-2.620(2).

5. An inspection and maintenance plan shall be submitted to the DER's Central District office as part of the operating permit application. The plan shall include provisions for the prevention and correction of VOC losses from leaks and equipment malfunctions.

6. By March 31 of each calendar year, an annual operating report shall be submitted to the DER's Central District office demonstrating compliance with the VOC emissions limit for Building 57.

7. Each scrubber system's efficiency and actual VOC emissions shall be established by a sampling and analysis program, which includes:
   a) a sample shall be taken annually from each scrubber stack and analyzed using EPA Method 25A, pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A;
   b) the DER's Central District office shall receive at least 15 days notice in writing prior to sampling;
   c) the report, summarizing the sampling results, shall be submitted to the DER's Central District office within 45 days after the last test run is completed;
   d) the efficiency of each control system shall be established by tests (inlet and outlet) once every five years for operation permit renewal; and,

SPECIFIC CONDITIONS:

e) the annual VOC emissions shall be calculated using actual emissions data derived from stack test sampling results and the actual operating hours for the affected source/building.

8. This permit will supercede all other permits previously issued on this source/Building No. 57.

9. The source/Building No. 57 is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4 and 40 CFR (July, 1990 version).

10. Projected potential acid emissions are 0.2 TPY.

11. Building No. 57 is subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation - Problems.

12. Any modification pursuant to F.A.C. Rule 17-2.100, Definitions-Modification, shall be submitted to the DER's Central District office and Bureau of Air Regulation (BAR) office for approval.

13. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the DER's BAR prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

14. An application for an operation permit must be submitted to the DER's Central District office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

PERMITTEE:
Harris Semiconductor

Permit Number: AC 05-205848
Expiration Date: July 31, 1992

SPECIFIC CONDITIONS:

Issued this _____ day
of _____, 1992

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

_____

STEVE SMALLWOOD, P.E., Director
Division of Air Resources
Management

Florida Department of Environmental Regulation

Twin Towers Office Bldg. ● 2600 Blair Stone Road ● Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

Permittee:
Harris Semiconductor
P. O. Box 883
Melbourne, FL 32902-0883

Permit Number: AC 05-205849
Expiration Date: July 31, 1992
County: Brevard
Latitude/Longitude: 28°01'20"N
80°36'10"W
Project: Building 59 Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 17-2 and 17-4, and 40 CFR (July, 1990 version). The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the modification of Building 59, which is an existing source used for the manufacture of semiconductors, to permit an increase in the potential acid emissions. The scrubber control and exhaust systems are:

Reliability Shop:
- o F59SO1: a Beverly Pacific 40,000 scfm (30,838 acfm) horizontal cross-flow wet scrubber, using polypropylene packing, and with a PVC mist eliminator for acid vapor removal; Model No. PS-40HT;
- o F59SO2: a Beverly Pacific 20,000 scfm (10,972 acfm) vertical counter-current wet scrubber, using polypropylene packing, with a PVC mist eliminator, for VOC (volatile organic compounds/organic solvents) vapor removal; Model No. PS-24VT; and,

Probe Card Repair Shop:
- o F59EO4: an exhaust fan.

The building/source is located at the permittee's existing facility located on Palm Bay Road in the City of Palm Bay. The UTM coordinates are Zone 17, 538.7 km East and 3100.9 km North.

The Source Classification Codes are: Major Group 36

o Cold Solvent Cleaning/ Stripping	4-01-003-99	Tons VOC/solvent Consumed

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:
1. Application to Construct/Modify Air Pollution Sources, DER Form 17-2.202(1), received October 24, 1991.
2. Technical Evaluation and Preliminary Determination dated January 10, 1992.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

a. Have access to and copy any records that must be kept under the conditions of the permit;

b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and,

c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

a. a description of and cause of non-compliance; and,

b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department;

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule; and,

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and,
- the results of such analyses.

GENERAL CONDITIONS:

14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The maximum allowable VOC (volatile organic compounds/organic solvents) emissions from Building No. 59 is 8.4 tons per year.

2. The VOC vapor and acid gas exhaust scrubber systems must be operating properly during the working hours.

3. Continuous operation shall be allowed (i.e., 8760 hours per year).

4. Objectionable odors shall not be allowed off plant property pursuant to F.A.C. Rule 17-2.620(2).

5. An inspection and maintenance plan shall be submitted to the DER's Central District office as part of the operating permit application. The plan shall include provisions for the prevention and correction of VOC losses from leaks and equipment malfunctions.

6. By March 31 of each calendar year, an annual operating report shall be submitted to the DER's Central District office demonstrating compliance with the VOC emissions limit for Building 59.

7. Each scrubber system's efficiency and actual VOC emissions shall be established by a sampling and analysis program, which includes:

a) a sample shall be taken annually from each scrubber stack and analyzed using EPA Method 25A, pursuant to F.A.C. Rule 17-2.700 and 40 CFR 60, Appendix A;
b) the DER's Central District office shall receive at least 15 days notice in writing prior to sampling;
c) the report, summarizing the sampling results, shall be submitted to the DER's Central District office within 45 days after the last test run is completed;
d) the efficiency of each control system shall be established by tests (inlet and outlet) once every five years for operation permit renewal; and,

SPECIFIC CONDITIONS:

e) the annual VOC emissions shall be calculated using actual emissions data derived from stack test sampling results and the actual operating hours for the affected source/ building.

8. This permit will supercede all other permits previously issued on this source/Building No. 59.

9. The source/Building No. 59 is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4 and 40 CFR (July, 1990 version).

10. Projected potential acid emissions are 0.3 TPY.

11. Building No. 59 is subject to the applicable provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation - Problems.

12. Any modification pursuant to F.A.C. Rule 17-2.100, Definitions-Modification, shall be submitted to the DER's Central District office and Bureau of Air Regulation (BAR) office for approval.

13. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the DER's BAR prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

14. An application for an operation permit must be submitted to the DER's Central District office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

PERMITTEE:
Harris Semiconductor

Permit Number: AC 05-205849
Expiration Date: July 31, 1992

SPECIFIC CONDITIONS:

Issued this _____ day
of _____, 1992

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

_____

STEVE SMALLWOOD, P.E., Director
Division of Air Resources
Management

ATTACHMENTS AVAILABLE UPON REQUEST

LETTER OF TRANSMITTAL

Date: October 22, 1991

To: Mr. Clair H. Fancy
Bureau Chief
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Fl 32399

Re: Construction Permits AC 05-190800 (Bldg. 54); AC 05-190799 (Bldg. 55); AC 05-189178 (Bldg. 57); AC 05-189176 (Bldg. 58); AC 05-180707 (Bldg. 59); AC 05-190797 (Bldg. 62), Harris Semiconductor, Melbourne.

WE ARE SENDING YOU:

[X] Attached
[ ] Under Separate Cover
[ ] Blueprints
[ ] Copy of Letter

THESE ARE TRANSMITTED:

[X] For approval
[ ] For Your Use
[ ] As Requested
[ ] For Review and Comment

Copies	Date	No.	Description
1	10/22/91	1	Letter of request for extension of permits for Bldgs. 54, 55, 58, 62.
1	10/22/91	2	Letter by a Company officer authorizing Mr. John Steiner, Director of Environmental and Facilities, to represent the owner.
1	10/22/91	3	Permit Application Fee for $1000.00
4	10/22/91	4	Modification to permit application for Bldgs. 54, 55, 57, 59.

REMARKS: Dear Mr. Clair:

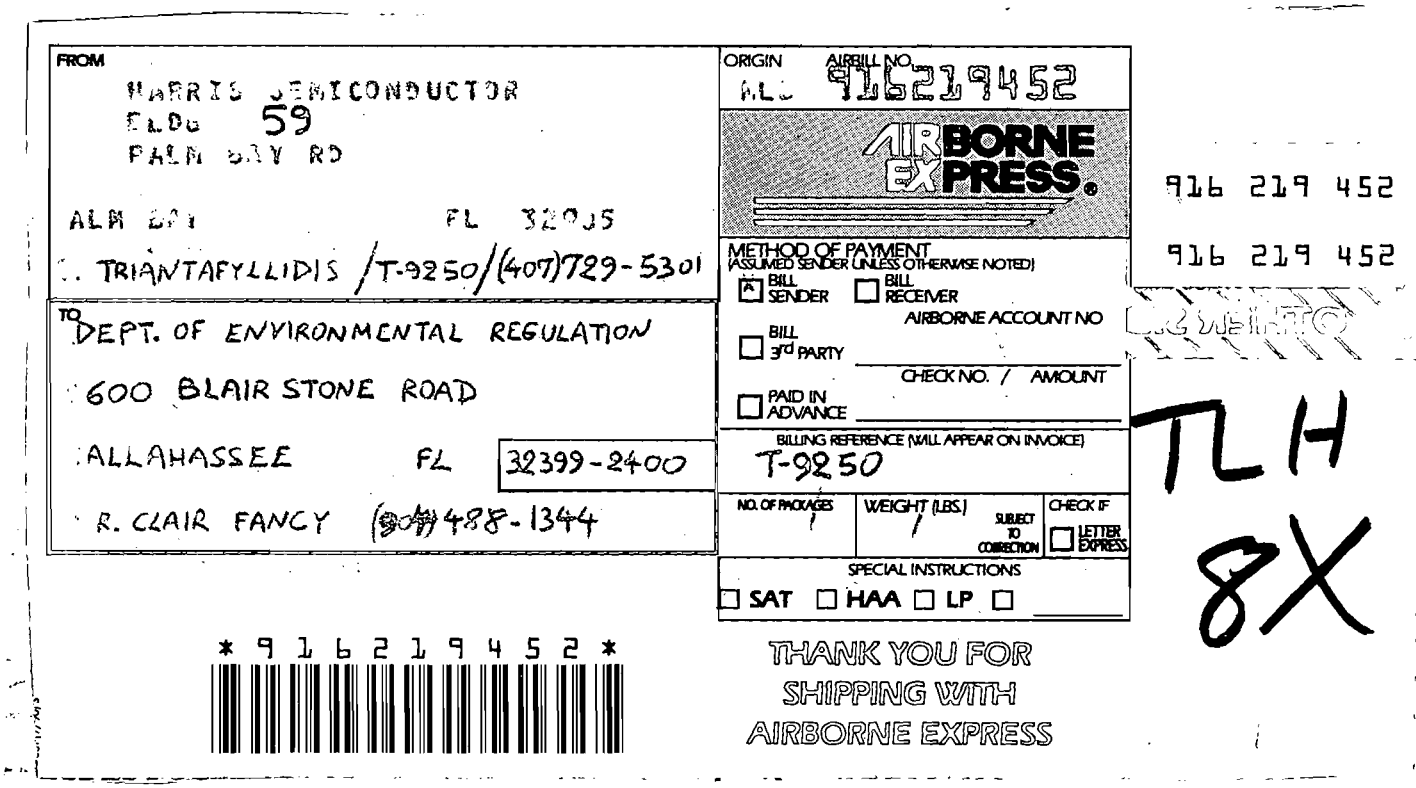
Should you have any questions or require any additional information in regards to the above mentioned submittal please, contact me at (407) 729-5301.

cc: D. Bock

Signed: Constantine Triantafyllidis

Constantine Triantafyllidis, R.E.P.

Best Available Copy



FROM
HARRIS SEMICONDUCTOR
BLDG 59
PALM BAY RD
ALB BAY FL 32905
C. TRIANTAFYLLIDIS /T-9250/(407)729-5301

TO DEPT. OF ENVIRONMENTAL REGULATION
600 BLAIR STONE ROAD
TALLAHASSEE FL 32399-2400
R. CLAIR FANCY (904)488-1344

ORIGIN ALB AIRBILL NO. 916219452

AIRBORNE EXPRESS

METHOD OF PAYMENT (ASSUMED SENDER UNLESS OTHERWISE NOTED)
☒ BILL SENDER ☐ BILL RECEIVER
☐ BILL 3rd PARTY AIRBORNE ACCOUNT NO
CHECK NO. / AMOUNT
☐ PAID IN ADVANCE

BILLING REFERENCE (WILL APPEAR ON INVOICE)
T-9250

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SPECIAL INSTRUCTIONS
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THANK YOU FOR SHIPPING WITH AIRBORNE EXPRESS

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HARRIS
SEMICONDUCTOR

JON E. CORNELL
President

6 March 1991

TO WHOM IT MAY CONCERN:

I, Jon E. Cornell, President of HARRIS SEMICONDUCTOR, a sector within HARRIS CORPORATION, do hereby authorize John Steiner, Sector Director of Facilities and Environmental Affairs of said HARRIS SEMICONDUCTOR, to execute applications for Pollution Source permits to the Department of Environmental Regulation of the State of Florida, and the United States Environmental Protection Agency. Mr. Steiner is further authorized to sign monitoring reports and execute other correspondence related to these permits for the Harris Semiconductor, Melbourne, Florida site.

Jon E. Cornell

Best Available Copy

VOUCHER NUMBER	INVOICE NUMBER	PURCHASE ORDER	INVOICE DATE	AMOUNT	DISCOUNT	NET AMOUNT
681887 55,57,59,54	PERMIT		10-04-91	1,000.00	.00	1,000.00
		T O T A L S		1,000.00	.00	1,000.00

REMITTANCE STATEMENT / DETACH BEFORE DEPOSITING

HARRIS SEMICONDUCTOR SECTOR

HARRIS

HARRIS CORPORATION
SEMICONDUCTOR SECTOR

THE FIRST NATIONAL BANK OF ATLANTA
AUGUSTA, GEORGIA

64-1327
611

182761

DATE	CHECK NO.	NET AMOUNT
10/11/91	00182761	******1,000.00

'AY

)NE THOUSAND AND 00/100 DOLLARS

TO THE ORDER OF

DEPARTMENT OF ENVIRONMENTAL REGULATION
BUREAU OF AIR QUALITY MANAGE
2600 BLAIR STONE RD
TALLAHASSE, FL 32301

HARRIS CORPORATION
SEMICONDUCTOR SECTOR

COUNTERSIGNED

AUTHORIZED SIGNATURE

DEPARTMENT OF ENVIRONMENTAL REGULATION

$1,000 pd, 10-24-91 Rcpt # K80709

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Bureau of Air Regulation

WIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

AC05-203985

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Stationary [ ] New[1] [X] Existing[1]

APPLICATION TYPE: [ ] Construction [X] Operation [X] Modification

COMPANY NAME: Harris Semiconductor COUNTY: Brevard

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Bldgs. 54, 55, 57, 59

SOURCE LOCATION: Street Palm Bay Road City Palm Bay

UTM: East 17-538700 North 17-3100900

Latitude 28 ° 01 ' 20 "N Longitude 80 ° 36 ' 10 "W

APPLICANT NAME AND TITLE: John R. Steiner, Director Environmental & Facilities

APPLICANT ADDRESS: P.O. Box 883, Melbourne, FL 32901

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Harris Semiconductor

I certify that the statements made in this application for a modified permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

*Attach letter of authorization

Signed: John R. Steiner

John R. Steiner, Director Environmental & Facilitie
Name and Title (Please Type)

Date: 10/21/91 Telephone No. (407) 724-7078

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

[1] See Florida Administrative Code Rule 17-2.100(57) and (104)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed Scott W McClarty

Scott W. McClarty, P.E.
Name (Please Type)

Harris Semiconductor
Company Name (Please Type)

P.O. Box 883, Melbourne, FL 32901
Mailing Address (Please Type)

Florida Registration No. 34468 Date: 10/21/91 Telephone No. (407) 729-4655

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

This is a modification to the construction permits AC 05-190800 (Bldg. 54); AC 05-190799 (Bldg. 55); AC 05-189178 (Bldg. 57); AC 05-180707 (Bldg.59)

See Insert A for further information

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction N/A Completion of Conetruction

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

N/A

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

See Insert B

INSERT A

The proposed modification to the construction permits for Buildings 54, 55, 57 and 59 is intended to adjust the emission limits of VOCs or Acids, as described below, without changing the overall site emissions.

This modification was engineered as a result of the last two sets of monitoring data collected for this site. The monitoring indicated a significant decrease in VOC and acid emissions from Building 54 due to certain chemical substitutions and higher than expected VOC emissions from Building 57 and Acid emissions from Building 59.

Consequently, it was deemed necessary to request for an additional buffer to the emission limits for Buildings 57 (VOCs) and 59 (Acids) to accommodate for fluctuations in the production activities and chemical usage. Similarly, we request for an additional buffer to the VOC emissions from Building 55. The overall increase in emissions is proposed to be offset by a proportionate decrease in the Building 54 emissions.

Specifically, the modification submittal proposes for an increase/reduction in the VOC or Acid emissions as follows:

Bldg 55, VOC emissions from 0.3 tons to 1.0 ton a year.
Bldg 57, VOC emissions from 2.0 tons to 3.0 tons a year.
Bldg 59, Acid emissions from 0.1 tons to 0.3 tons a year.
Bldg 54, VOC emissions from 75.5 tons to 73.8 tons a year.
Bldg 54 Acid emissions from 9.9 tons to 9.7 tons a year.

INSERT B

Building 54:	AO 05-65408 issued 5/3/83; exp. 5/2/88
	AO 05-115804 issued 5/20/86; exp. 5/22/91
	AC 05-147321 issued 10/25/88; exp. 6/30/91
Building 55:	AC 05-104523 issued 1/14/86; exp. 6/30/86
	AC 05-164544 issued 10/26/89; exp. 6/30/91
Building 57:	AC 05-104522 issued 1/14/86; exp. 6/30/86
	AC 05-161706 issued 5/26/89; exp. 6/30/91
Building 59:	AC 05-104521 issued 1/15/86; exp. 6/30/86
	AC 05-104527 issued 1/15/86; exp. 4/1/86
	AC 05-150794 issued 3/31/89; exp. 12/5/89
	AC 05-174445 issued 3/27/90; exp. 1/31/91

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;

if power plant, hrs/yr_____; if seasonal, describe:_____

F. If this is a new source or major modification, answer the following questions. (Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? No

   a. If yes, has "offset" been applied? _____

   b. If yes, has "Lowest Achievable Emission Rate" been applied? _____

   c. If yes, list non-attainment pollutants. _____

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. No

3. Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII. No

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? No

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply to this source? No

   a. If yes, for what pollutants?_____

   b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
---SEE ATTACHMENT C---				

B. Process Rate, if applicable: (See Section V, Item 1)

1. Total Process Input Rate (lbs/hr): not applicable

2. Product Weight (lbs/hr): not applicable

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of Contaminant	Emission[1]		Allowed[2] Emission Rate per Rule 17-2	Allowable[3] Emission lbs/hr	Potential[4] Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
---SEE ATTACHMENT B---							

[1]See Section V, Item 2.

[2]Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

[3]Calculated from operating rate and applicable standard.

[4]Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
---SEE ATTACHMENT D---				

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average _____ Maximum _____

G. Indicate liquid or solid wastes generated and method of disposal.

Waste water from air scrubbers is discharged to on-site Waste Water Treatment Plant --discharge to deepwell under UIC- Permit # UC05-126519.

------SEE ATTACHMENT D------

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: _____ ft. Stack Diameter: _____ ft.

Gas Flow Rate: _____ ACFM _____ DSCFM Gas Exit Temperature: _____ °F.

Water Vapor Content: _____ % Velocity: _____ FPS

SECTION IV: INCINERATOR INFORMATION

not applicable

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume $(ft)^3$	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: _____ ft. Stack Diamter: _____ Stack Temp. _____

Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: [ ] Cyclone [ ] Wet Scrubber [ ] Afterburner

[ ] Other (specify) _____

Brief description of operating characteristics of control devices: _____

_____

_____

_____

_____

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

_____

_____

_____

_____

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]

2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.

3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).

4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)

5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).

6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.

7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).

8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.

10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

[ ] Yes [ ] No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

[ ] Yes [ ] No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:
2. Operating Principles:
3. Efficiency:*
4. Capital Costs:

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters

a. Height: ft.

b. Diameter: ft.

c. Flow Rate: ACFM

d. Temperature: °F.

e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1]

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy[2]

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1]

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:[2]

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

[1]Explain method of determining efficiency.
[2]Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1]

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:[2]

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:[1]

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:[2]

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:[1]

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:[2]

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

[1] Explain method of determining efficiency.
[2] Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:[1]

Contaminant	Rate or Concentration

(8) Process Rate:[1]

b. (1) Company:

(2) Mailing Address:

(3) City: (4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:[1]

Contaminant	Rate or Concentration

(8) Process Rate:[1]

10. Reason for selection and description of systems:

[1]Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ ( ) SO_2* _____ Wind spd/dir

Period of Monitoring _____/_____/_____ to _____/_____/_____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

a. Was instrumentation EPA referenced or its equivalent? [ ] Yes [ ] No

b. Was instrumentation calibrated in accordance with Department procedures?

[ ] Yes [ ] No [ ] Unknown

B. Meteorological Data Used for Air Quality Modeling

1. _____ Year(s) of data from ____/____/____ to ____/____/____
month day year month day year

2. Surface data obtained from (location)_____

3. Upper air (mixing height) data obtained from (location)_____

4. Stability wind rose (STAR) data obtained from (location)_____

C. Computer Models Used

1. _____ Modified? If yes, attach description.

2. _____ Modified? If yes, attach description.

3. _____ Modified? If yes, attach description.

4. _____ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate	
TSP	_____	grams/sec
SO^2	_____	grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

ATTACHMENT A.

PROCESS DESCRIPTION

PROCESS DESCRIPTION
BUILDING 54

Building 54 is a wafer fabrication facility. The second floor of the two-story building houses two clean room modules. Both fabrication areas employ a series of manufacturing procedures referred to as layering, patterning, doping and heating processes. The frequency and sequence of these processes can vary depending on the desired nature of the final product.

In the controlled environment of the fabrication clean rooms, wafer surfaces first undergo acid and/or solvent cleaning, followed by thermal oxidation in furnaces to form a layer of silicon dioxide on the wafer surface.

During the patterning process, the wafers are initially baked and primed. Coaters then spin a thin layer of "photoresist" on the wafer, after which the wafers are soft baked. Next, the circuit pattern is projected onto the wafers via "alligners" or "steppers." Developers are then applied to remove unpolymerized areas of photoresist. This is followed by a solvent rinse.

Next, the wafers are hard-baked, inspected to determine accuracy, and etched by wet (acid bath) or dry (plasma vapor) mechanisms. Once etching is complete, the photoresist is stripped off the wafer using chemical baths or plasma techniques.

In another step of the fabrication process, "dopant" atoms are either diffused into the wafer in diffusion furnaces, or accelerated into the wafer using "ion implantation." Additional material may be layered on the wafer surface in diffusion, plasma and crystal (epitaxial) deposition furnaces. Metallization to interconnect uppermost circuit layers is performed by deposition (using "sputtering" systems) or evaporation.

Wet stations that house vats containing a variety of acid and caustic compounds are located throughout the clean rooms. Storage cabinets safely hold virgin chemicals until they are ready for use. The first floor of the building contains exhausted gas cabinets that supply process gases to the 'fab' operations.

The exhaust system for the Building is divided into two sections. The west portion of the Building is exhausted to the wet scrubber system F54S01 at ground level. The east portion of the Building exhaust is ducted to a common line that divides into two wet scrubber systems F54S03 and F54S04 located also at ground level (see Attachment E). Also on the east side of building 54 is a non-scrubbed exhaust fan F54E17 that handles air flow from several alligners, furnace source cabinets, and gas cabinets.

PROCESS DESCRIPTION
BUILDING 55

Building 55 is the collection, short term storage, and shipping point for waste chemicals from the various areas of the facility. Activities which are exhausted, involve the handling of empty, capped glass and plastic solvent bottles which are brought to the Building in gondolas or 'bins'.

The Building houses six exhausted wet stations/operations. Two stations are used for acid bottle washing, and another station is used on an 'as needed basis' to control the release of chemicals from broken, deteriorated, or damaged 'bubbler' containers which cannot be safely returned to the vendor. These 'bubblers' supply reactive gases to the chemical vapor deposition process in the wafer fabrication areas (these areas are located in other buildings on the site). Another station is used for a solvent stripper bottle washing. This station is pending approval as an amendment to the permit AC 05-190799.

The Building also houses two bottle crushers for the remaining empty solvent bottles as well as the acid washed and the stripper washed bottles. This operation was a source of fugitive solvent emissions and recently was permitted to be exhausted as an amendment to the permit AC 05-190799.

The above mentioned stations and operations are exhausted to scrubber number F55S01, which is located on the roof of the building. Information on this scrubber is submitted in Attachment D, control equipment information, and in Attachment E, scrubber location maps. The fume scrubber is operating continuously but emissions are exhausted only when there is chemical activity under the hooded wet stations/operations.

The waste solvent chemicals brought to Building 55 are used process chemicals from the manufacturing operations at the plant. The waste solvents are brought in closed containers and are stored as such for a short time prior to lab-packing and disposal offsite. Consequently, this operation produces negligible amounts of emissions.

PROCESS DESCRIPTION
BUILDING 57

The primary manufacturing operations in Building 57 are Soldering and Plating of integrated circuit parts. The Soldering process involves two wave solder machines, a solder bath system, and an aqueous post cleaning system.

The Plating process involves a series of wet stations with acid vats and a water rinse station. No covers are used on the vats. Integrated circuits that previously underwent a baking process are acid etched at an elevated temperature to remove an oxidized layer.

Exhausted equipment includes wave soldering machines, an aqueous post cleaning system, wet stations, chemical storage cabinets, and a degreaser.

Scrubber number F57S01 treats acidic and corrosive contaminated exhaust generated from the above mentioned equipment.
The scrubber is located on the roof of the building. Location maps are included in Attachment E of this submittal. Additional information on the scrubber is included in Attachment D.

PROCESS DESCRIPTION - BUILDING 59

Building 59 houses a wafer fabrication facility on the first floor. The wafer fabrication area employs a series of manufacturing procedures referred to as layering, patterning, doping,and heating. The frequency and sequence of these processes can vary depending on the desired nature of the final product.

In the controlled environment of the fabrication clean room, wafer surfaces first undergo acid and/or solvent cleaning, followed by thermal oxidation in furnaces to form a layer of silicon dioxide on the wafer surface.

During the patterning process, the wafers are initially baked and primed. Coaters then spin a thin layer of "photoresist" on the wafer, after which the wafers are soft baked. Next, the circuit pattern is projected onto the wafers via "alligners" or "steppers." Developers are then applied to remove unpolymerized areas of photoresist. This is followed by a solvent rinse.

Next, the wafers are hard-baked, inspected to determine accuracy, and etched by wet (acid bath) or dry (plasma vapor) mechanisms. Once etching is complete, the photoresist is stripped off the wafer using chemical baths or plasma techniques. In another step of the fabrication process, "dopant" atoms are either diffused into the wafer in diffusion furnaces, or accelerated into the wafer using "ion implantation." Fumes from the vapor deposition furnaces are oxidized in 'burn boxes.' The oxidized gases are then exhausted to scrubber systems. Additional material may be layered on the wafer surface in vapor and crystal (epitaxial) deposition furnaces. Metallization to interconnect uppermost circuit layers is performed by deposition (using "sputtering" systems) or evaporation. Thirteen exhausted wet stations that house vats containing a variety of acid and caustic compounds are in the fabrication facility. Five of these stations contain solvents; one of which is heated.

To the east of the 'fab' is a probe card repair shop. Four solvent stations are presently employed.

The ground floor houses a process equipment support room that contains gas cabinets, chemical storage cabinets, vacuum pumps and drains. These exhausted units service the process equipment which safely hold virgin chemicals until they are ready for use. Gas cabinets house cylinders that supply process gases to the fab operations. In addition, several waste collection areas are exhausted. The ground floor also houses the site's distilled water plant, and a mechanical equipment storage area.

The aluminum etching equipment of the fab is exhausted to two gas trap units in conjunction with two dry vacuum pumps. The gas traps are located on the ground floor of the Building. The gas traps are the Ebara GTE-3 units along with the Ebara 50x20 Dry Vacuum Pumps (see Attachment D, Control Equipment).

ATTACHMENT B.

AIR EMISSIONS

SOLVENT MONITORING
BUILDING 54, BUILDING 55, BUILDING 57, BUILDING 59

Solvent monitoring work was performed on the Buildings 54, 55, 57 and 59 scrubber systems in June and October of 1990 and in January of 1991. The tests conducted were EPA Method 25A (flame ionization detection) and EPA Methods 1-4 to measure moisture and flow data for the outlet. The results are included in the following tables of this application submittal.

The monitoring was performed over an 8 hour interval when full production was occurring. The data was corrected for background noise that is normally present in the ambient air. The results were derived using 1990 actual production hours. The actual number of operating hours for calendar year 1991 is recorded monthly for each Building and will be available at the end of the year.

As mentioned in the application section of this submittal, the 1990 and 1991 monitoring data indicate a significant reduction in the VOC/Solvent emissions from Building 54 and higher than expected from Building 57.

Furthermore, based on 1988 monitoring work on a number of scrubbers at this site, it was determined that emissions during non productions hours equaled 18.3 % of the emissions occurring during production hours. Emission reduction efforts such as chemical substitutions, shorter times in chemical use, covered solvent baths, etc. showed a reduction in the overall emissions at this site which further indicates the non-production emissions are lower. Assuming 'worst case' conditions, the additional emissions appear to exceed the projected potential emissions for Building 57. The attached tables show the 1990 and 1991 monitored production emissions, the calculated non-production emissions and the combined emissions for Buildings 54 and 57 as well as the latest fugitive emission calculations for Building 55.

Consequently, we request that an additional buffer is considered to accommodate for fluctuations in production activities and chemical usage. In addition, we request for an additional buffer to the air emissions for Building 55. Therefore, we request for the following changes in potential emissions:

An increase of the Building 57 projected potential VOC emissions from 2.0 to 3.0 tons per year.
An increase of the Building 55 projected potential VOC emissions from to 0.3 to 1.0 tons per year.
A decrease of the Building 54 projected potential VOC emissions from 75.5 to 73.8 tons per year.

The proposed adjustments will not change the overall solvent emissions for the site.

Exhausted equipment on the ground floor and in the wafer fabrication area is ducted to one of two scrubbers; acid vapors are vented to scrubber number F59S01, while solvent exhaust streams are ducted to scrubber number F59S02. Both systems reside on the site grounds directly outside the west wall of the building (see scrubber location maps attached.)

Probe card repair shop equipment is ducted to exhaust fan no. F59E04, which is housed in the building on the ground floor (east side; see location map.)

The Building also houses the Reliability lab on the first floor to the west of the fabrication area. In Reliability, integrated circuits are tested for a wide variety of parameters including tolerance to temperature and humidity changes, endurance, and electrical conductivity. Two solvent stations and four acid stations were added. The wet benches are exhausted to the existing scrubber systems described above.

SUMMARY OF 1990 AND 1991 ANNUAL MONITORING RESULTS ON VOC/SOLVENT EMISSIONS EXPRESSED AS PROPANE. THIS DATA IS BASED ON ACTUAL OPERATING HOURS FOR THE CALLENDAR YEAR 1990. BUILDING 55 FUGITIVE EMISSIONS ARE BASED ON ENGINEERING CALCULATIONS.

1990 MONITORING EMISSION DATA

TEST DATE	BLDG #	1990 PRODUCT. SCHEDULE (HRS/YR)	AVG VOC EMISS. (LBS/HR)	PRODUCT. VOC EMISS. (TONS/YR)	NON-PRODUCT. VOC EMISS. 18.3% OF PRODUCT. EMISS. (TONS/YR)	1990 TOTAL EMISSIONS (TONS/YR)
06/90	54	6468	5.83	18.85	3.45	22.30
06/90	55	2500	N/A	0.24 (FUG. EMISS.)	N/A	0.24
06/90	57	6936	0.23	0.80	0.15	0.94

1991 MONITORING EMISSION DATA

TEST DATE	BLDG #	1990 PRODUCTION SCHEDULE (HRS/YR)	AVG VOC EMISSIONS (LBS/HR)	VOC EMISSIONS EMISS. (TONS/YR)	NON-PRODUCT. VOC EMISS. 18.3% OF PRODUCT. EMISS. (TONS/YR)	1991 TOTAL EMISS. (TONS/YR)
02/91	54	6468	5.70	18.43	3.37	21.81
02/91	57	6936	0.52	1.80	0.33	2.13

MAXIMUM ALLOWABLE VOC/SOLVENT EMISSIONS
UNDER THE **EXISTING CONDITIONS**

BLDG #	MAX. ALLOWABLE VOC/SOLVENT EMISSIONS (TONS/YR)
54	75.5
55	0.3
57	2.0

NET CHANGE IN MAXIMUM ALLOWABLE VOC/SOLVENT EMISSIONS
UNDER THE **PROPOSED CONDITIONS**

BLDG #	NET CHANGE VOC/SOLVENT EMISSIONS (TONS/YR)
54	1.7 DECREASE
55	0.7 INCREASE
57	1.0 INCREASE

MAXIMUM ALLOWABLE VOC/SOLVENT EMISSIONS
UNDER THE **PROPOSED CONDITIONS**

BLDG #	MAX. ALLOWABLE VOC/SOLVENT EMISSIONS (TONS/YR)
54	73.8
55	1.0
57	3.0

ACID MONITORING
BUILDING 54, BUILDING 55, BUILDING 57, BUILDING 59

Acid monitoring work was performed on the Buildings 54, 55, 57 and 59 scrubber systems in June of 1990. Samples were collected using modified EPA method 8 sampling train. The impinger solution used to capture the acids was pure distilled water. The analytical methodology utilized to determine the ions of highest concentration is as follows:

Chloride ion--EPA Method 325.3
Fluoride ion--EPA Method 340.2
Nitrate ion--EPA Method 353.2
Phosphorous--EPA Method 365.2
Sulfate ion--EPA Method 375.2

All test results were in pounds per hour as "X", where "X" represents the acid compound present in highest concentration.

The test results are given on the following table and are expressed as hydrochloric, hydrofluoric, nitric, phosphoric and sulfuric acids. The results are based on the actual production schedule for calendar year 1990. The monitoring was performed over an 8 hour time interval when full production was occurring.

When a resulting acid concentration was expressed as a "less than 'y' " value, where 'y' represents the lowest detectable limit possible using the analytical methodology employed, acid emissions were taken to be equal to this 'y' limit value.

The monitoring indicated a significant drop in acid emissions from Building 54 and a higher than the potential emissions from Building 59. Therefore, we request that the following adjustment be considered:

An increase in the Building 59 acid emissions from 0.1 to 0.3 tons per year.
A decrease in the Building 54 acid emissions from 9.9 to 9.7 tons per year.

The proposed adjustments will not change the overall acid emissions for the site.

SUMMARY OF 1990 ANNUAL MONITORING RESULTS ON ACID EMISSIONS EXPRESSED AS HCL, HF, HNO3, HP03 AND H2S04. THIS DATA IS BASED ON ACTUAL OPERATING HOURS FOR THE CALLENDAR YEAR 1990.

1990 MONITORING EMISSION DATA

TEST DATE	BLDG #	1990 PRODUCTION SCHEDULE (HRS/YR)	AVG ACID EMISSIONS (LBS/HR)	ACID EMISSIONS (TONS/YR)
06/90	54	6468	1.73	5.59
06/90	59	7242	0.05	0.17

PROJECTED POTENTIAL ACID EMISSIONS
UNDER THE **EXISTING CONDITIONS**

BLDG #	POTENTIAL VOC/SOLVENT EMISSIONS (TONS/YR)
54	9.9
59	0.1

NET CHANGE IN PROJECTED POTENTIAL ACID EMISSIONS
UNDER THE **PROPOSED CONDITIONS**

BLDG #	NET CHANGE VOC/SOLVENT EMISSIONS (TONS/YR)
54	0.2 DECREASE
59	0.2 INCREASE

PROJECTED POTENTIAL ACID EMISSIONS
UNDER THE **PROPOSED CONDITIONS**

BLDG #	POTENTIAL VOC/SOLVENT EMISSIONS (TONS/YR)
54	9.7
59	0.3

ATTACHMENT C.

RAW MATERIALS & CHEMICALS

BUILDING 54
PROCESS SOLVENTS

1,1,1 TRIMETHYL-N-TRIMETHYL ETHER
1,1,1 TRICHLOROETHANE
1,2,4 TRICHLOROBENZENE
2-ETHOXYETHYL ACETATE
ACETONE
AROMATIC HYDROCARBON SOLVENT C9-C12
BUTYL CELLOSOLVE
CARBON TETRACHLORIDE
CELLOSOLVE ACETATE
CRESOL
DIPROPYLENE GLYCOL METHYL ETHER
ETHYL BENZENE
FREON 14
FREON 23
FREON TF
HEXAMETHYLDISILIZANE
ISOPARAFFINIC HYDROCARBONS
ISOPROPYL ALCOHOL
METHANOL
N-BUTYL ACETATE
N-METHYL-2-PYRROLIDONE
OIL
OXTYLPHENOL POLYETHOXYLATE
PHILTEC SAFETY STAIN
PROPYLENE GLYCOL MONOETHYL ETHER ACETATE
XYLENE

BUILDING 54
PROCESS CHEMICALS

ACETIC ACID
ALKYL ARYL SULFONIC ACID
ALUMINA SILICA
AMMONIA
AMMONIUM HYDROXIDE
AMMONIUM FLUORIDE
CERIC SULFATE
CHROMIC ACID
DODECYLBENZENE SULFONIC ACID
ETHYLENE DIAMINE TETRACETIC ACID (EDTA)
ETHYLENE GLYCOL
GLYCERINE
HYDROCHLORIC ACID
HYDROFLUORIC ACID
HYDROGEN PEROXIDE
NITRIC ACID
PHOSPHATE
PHOSPHORIC ACID
POTASSIUM HYDROXIDE
PROPYLENE CARBONATE
SODIUM HYPOPHOSPHITE
SODIUM HYDROXIDE
SULFURIC ACID
TETRAMETHYL AMMONIUM HYDROXIDE

BUILDING 54
PROCESS GASES

ARGON
ARSINE
BORON TRIFLUORIDE
BORON TRIBROMIDE
BORON TRICHLORIDE
CARBON DIOXIDE
CHLORINE
DE 100
DIBORANE
DICHLOROSILANE
HELIUM
HYDROGEN
HYDROGEN CHLORIDE
NITROGEN
NITROGEN TRIFLUORIDE
NITROUS OXIDE
OXYGEN
PDE 100
PHOSPHINE
PHOSPHOROUS OXYCHLORIDE
PHOSPHOROUS TRIBROMIDE
SILANE
SULFUR HEXAFLUORIDE
TUNGSTEN HEXAFLUORIDE

HARRIS SEMICONDUCTOR
BUILDING 55
LIST OF SOLVENTS

1,1,1-TRICHLOROETHANE
1,2,4-TRICHLOROBENZENE
1,2-DICHLOROBENZENE
ACETONE
CELLOSOLVE ACETATE
CRESOL
ETHANOL
ETHYLBENZENE
ETHYLENE GLYCOL
FREON 113
ISOPROPANOL
METHANOL
N-BUTYL ACETATE
N-METHYL PYRROLIDONE
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE
TETRAMETHYL AMMONIUM HYDROXIDE
TOLUENE
XYLENE
HEXAMETHYLDISILAZANE

BUILDING 55
PROCESS CHEMICALS

ACETIC ACID
AMMONIUM FLUORIDE
AMMONIUM HYDROXIDE
BORON TRIBROMIDE
HYDROCHLORIC ACID
HYDROFLUORIC ACID
NITRIC ACID
NITROGEN
OXYGEN
PHOSPHORIC ACID
PHOSPHOROUS OXYCHLORIDE
SULFURIC ACID
WASTE ACIDS
WASTE SOLVENTS
WASTE SULFURIC ACID

BUILDING 57
PROCESS SOLVENTS

1,1,1 TRICHLOROETHANE
4-METHYL-2,4-PENAHNEDIOL
ACETONE
ALIPHATIC ESTER
ALIPHATIC SOLVENTS
ALKANOLAMINE
ALKYL AMINE
CARBON TETRACHLORIDE
CELLOSOLVE ACETATE
CHLOROFORM
ETHANOL
ETHYL ACETATE
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE
ETHYLENE GLYCOL MONOETHYL ACETATE
FLUORINERT FC-71
FLUORINERT FC-84
HEXANE
HYDROQUINONE
ISOPROPANOL
METHANOL
METHYLENE CHLORIDE
N-METHYL-2-PYRROLIDONE
ORGANIC SALT
PETROLATUM
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE
TRICHLOROETHYLENE
TRICHLOROTRIFLUOROETHANE
TRIETHYLENE GLYCOL MONOMETHYL ETHER
TURPENTINE
XYLENE

BUILDING 57
PROCESS CHEMICALS

ACTIVATORS
AMINE SALT
AMINO ACID CHLORIDE
AMMONIUM BIFLUORIDE
AMMONIUM CHLORIDE
AMMONIUM HYDROXIDE
AMMONIUM PHOSPHATE
ANTIMONY
ANTIOXIDANT
BENZOIC ACID
BISMUTH
BORIC ACID
CADMIUM MERCURY SULFIDE
CADMIUM SULFOSELENIDE RED
CARAMIDE
CARBOXYLIC ACID-PHENOL
CITRIC ACID
CRESOL
DIMETHYL PHTHALATE
ETHOXYLATED TALL OIL FATTY ACIDS
FATTY ACID GLYCERIDES
FATTY ACIDS
FLUOBORIC ACID
FLUORIDE SALT
FORMIC ACID
GLUTAMATE POLYMER ACTIVATOR
GLUTAMATE POLYMER HYDROCHLORIDE
GLYCERINE
GLYCEROL
GUM RESIN
HYDROCHLORIC ACID
HYDROCHLORIDE
HYDROFLUORIC ACID
HYDROGEN PEROXIDE
INDICATING DYE
INDIUM
INORGANIC CARBONATES
INORGANIC OXIDES
ISOBUTANE PROPELLANT
ISOPHORONE
JANUS GREEN B
LEAD
LEAD CHROMATE
LEAD SALT
LITHIUM SALT
METHYL CHLORIDE
MONOETHANOLAMINE
NITRIC ACID
ORGANIC ACID

(CONTINUED)

BUILDING 57
PROCESS CHEMICALS

ORGANIC ACID PHOSPHATE
PETROLEUM OIL
PHOSPHORIC ACID
POLYFUNCTIONAL ACID
POTASSIUM 2-CHLORO-4-NITROBENZOATE
POTASSIUM BIFLUORIDE
POTASSIUM CYANIDE
POTASSIUM CYANOAURITE
POTASSIUM PENTABORATE
POTASSIUM TETRABORATE
RESIN
ROSIN
SILVER
SODIUM BICARBONATE
SODIUM CARBONATE
SODIUM DODECYL SULFATE
STANNOUS SULFATE
STEARIC ACID
SULFATE
SULFURIC ACID
SURFACTANTS
THIOUREA
TIN
WATER SOLUBLE DISPERANT
ZINC CHLORIDE

BUILDING 59
PROCESS SOLVENTS

1,1,1 TRICHLOROETHANE
2-ETHOXYETHYL ACETATE
ACETONE
BUTYL CELLOSOLVE
CARBON TETRACHLORIDE
CELLOSOLVE ACETATE
CHLOROPENTAFLUOROETHANE
DICHLORODIFLUOROETHANE
ETHYLENE DIAMINE TETRACETIC ACID (ED
ETHYL ALCOHOL
ETHYL BENZENE
ETHYLENE DIAMINE
ETHYLENE GLYCOL MONOMETHYL ETHER
FLUOROCARBON-72
FREON 5311
FREON TF
FREON TMS
ISOPROPYL ALCOHOL
ISOPARAFFINIC HYDROCARBONS
METHANOL
METHYL ETHYL KETONE
METHYLPHENYL ETHER
METHYL-2-PYRROLIDINONE
MONOETHANOLAMINE
N,N-DIMETHYLFORMAMIDE
N-BUTYL ACETATE
N-BUTYL ALCOHOL
N-METHYL PYRROLIDONE
PROPYLENE GLYCOL
PROPYLENE GLYCOL 1,2 PROPANEDIOL
TOLUENE
TRICHLOROTRIFLUOROETHANE
XYLENE

BUILDING 59
PROCESS CHEMICALS

AMYL ACETATE
AMMONIA
AMMONIUM FLUORIDE
AMMONIUM HYDROXIDE
BORON NITRIDE
ETHYLENE GLYCOL
GLYCERINE
HYDROCHLORIC ACID
HYDROFLUORIC ACID
HYDROGEN PEROXIDE
MOLYBDENUM DISULFIDE
NITRIC ACID
PHOSPHORIC ACID
POTASSIUM DICHROMATE
POTASSIUM PHOSPHATE
RED PHOSPHOROUS
SODIUM CARBONATE
SODIUM HYDROXIDE
SODIUM PHOSPHATE
SULFURIC ACID
TETRAETHYL ORTHOSILICATE (TEOS)
TETRAMETHYL AMMONIUM HYDROXIDE
TRISODIUM PHOSPHITE

BUILDING 59
PROCESS GASSES

ARGON
BORON TRIBROMIDE
BORON TRIFLUORIDE
CHLORINE
DICHLOROSILANE
HELIUM
HEXAFLUOROETHANE
HYDROGEN
HYDROGEN CHLORIDE
NITROGEN
NITROGEN TRIFLUORIDE
NITROUS OXIDE
OXYGEN
OZONE
PHOSPHINE
PHOSPHOROUS OXYCHLORIDE
SILANE
SULFUR HEXAFLUORIDE
TRIMETHYL BORATE
TRIMETHYL PHOSPHATE
TUNGSTEN HEXAFLUORIDE

ATTACHMENT D.

CONTROL EQUIPMENT

HARRIS SEMICONDUCTOR -- AIR PERMIT INFORMATION

CURRENT PERMIT

BUILDING: 54 DATE ISSUED : 10/25/88
PERMIT NUMBER: AC 05-147321 RENEWAL DATE: 08/29/90
PERMIT TYPE : CONSTRUCTION DATE EXPIRES: 06/30/91

AREA SERVED: BUILDING 54 WEST SIDE
PROCESS DESCRIPTION: ACID AND VOC/SOLVENT SCRUBBER

BLDG PERMIT INFORMATION

VOL. RATE (SCFM): 50,000
ACID MIST(TON/YR): 9.9
SOLV/VOCS(TON/YR): 75.5

OPER. (HRS/YEAR): 8760

SPECIFIC CONDITIONS

ANNUAL OPERATING REPORT : 03/31
NOTIFICATION OF VE TEST : N/A
ANNUAL VIS EMISSION TEST: N/A

SCRUBBER INFORMATION

MANUFACTURER : BEVERLY PACIFIC MODEL NUMBER : PS-50HT
SERIAL NUMBER: F-600 MATERIAL : FIBERGLASS REINFORCED PLASTIC
HARRIS ID NUMBER: F54S01
LOCATION : B54 GROUND NORTHWEST CORNER

DESCRIPTION : HORIZONTAL CROSS FLOW, NON-CLOGGING PVC SPRAY NOZZLES, 2" POLYPROPYLENE PACKING, PVC MIST ELIMINATOR

DESIGN DATA

VOLUME FLOW RATE (CFM): 50,000 STACK HEIGHT (FT): 65
RECIRCULATION RATE (GPM): 225 STACK DIAMETER (IN): 54/48
MAKE UP WATER RATE (GPM): 22 STACK VELOCITY (FPM): 3200
PRESSURE DROP (IN): 2.5

ACTUAL DATA

VOLUME FLOW RATE (CFM): 43,141 PRESSURE DROP (IN): 0.7
RECIRCULATION RATE (GPM): 70 MAKE UP WATER RATE (GPM): 4
DATE: 9/10/91

RECIRCULATION PUMP INFORMATION

MANUFACTURER : FILTER PUMP IND MODEL NUMBER : P-7.5
SERIAL NUMBER: 106001/106002 HP : 7.5 RPM : 3500/2900
BRKR LOCATION: NEXT TO UNIT FED FROM MCC : MCC-P

FAN INFORMATION

HARRIS ID # :
MANUFACTURER : BEVERLY PACIFIC MODEL NUMBER: CB-60
SERIAL NUMBER: F-600 MATERIAL : FIBERG.REINFORCED PLASTIC
DESCRIPTION : CENTRIFUGAL TYPE, CLASS II, BACKWARD INCLINED BLADES

DESIGN DATA
VOLUME FLOW RATE (CFM): 50,000 STATIC PRESS (IN): 5.0
SPEED (RPM): 629

ACTUAL DATA
VOLUME FLOW RATE (CFM): 43,141 STATIC PRESS (IN): 1.8
SPEED (RPM) : DATE : 11/6/90

FAN MOTOR INFORMATION

MANUFACTURER : MODEL NUMBER:
SERIAL NUMBER: HP: 75 SPEED (RPM):

BRKR LOCATION: NEXT TO UNIT FED FROM MCC: 634

PERMIT HISTORY

PERMIT NUMBER: AO 05-65408
DATE EXPIRED : 05/02/88

PERMIT NUMBER: AC 05-147321
DATE EXPIRED : 06/30/91 (SUPERCEDED)

PERMIT NUMBER:
DATE EXPIRED :

PERMIT NUMBER:
DATE EXPIRED :

HARRIS SEMICONDUCTOR -- AIR PERMIT INFORMATION

CURRENT PERMIT

BUILDING: 54 DATE ISSUED : 02/28/91
PERMIT NUMBER: AC 05-190800 RENEWAL DATE:
PERMIT TYPE : CONSTRUCTION DATE EXPIRES: 12/31/91

AREA SERVED: BUILDING 54 EAST SIDE
PROCESS DESCRIPTION: ACID AND VOC/SOLVENT SCRUBBER

BLDG PERMIT INFORMATION

VOL. RATE (SCFM): 17,000
ACID MIST(TON/YR): 9.9
SOLV/VOCS(TON/YR): 75.5

OPER. (HRS/YEAR): 8760

SPECIFIC CONDITIONS

ANNUAL OPERATING REPORT : 03/31
NOTIFICATION OF VE TEST : N/A
ANNUAL VIS EMISSION TEST: N/A

SCRUBBER INFORMATION

MANUFACTURER : HARRINGTON MODEL NUMBER : ECH 66-9PBS
SERIAL NUMBER: S11164-4 MATERIAL : FIBERGLASS REINFORCED PLASTIC
HARRIS ID NUMBER: F54S02
LOCATION : B54 GROUND NORTHEAST CORNER, NORTHERNLY POSITION

DESCRIPTION : HORIZONTAL CROSS-FLOW, GLASDEX 12060 PVC PACKING, LIQUID DISTRIBUTION THROUGH MAIN HEADER, PVC MIST ELIMINATOR

DESIGN DATA

VOLUME FLOW RATE (CFM): 17,000 STACK HEIGHT (FT): 65
RECIRCULATION RATE (GPM): 144 STACK DIAMETER (IN): 60/48
MAKE UP WATER RATE (GPM): 10 STACK VELOCITY (FPM): 3400
PRESSURE DROP (IN): 2.0

ACTUAL DATA

VOLUME FLOW RATE (CFM): 16,000 PRESSURE DROP (IN): 0.7
RECIRCULATION RATE (GPM): 120 MAKE UP WATER RATE (GPM): 6
DATE: 9/10/91

RECIRCULATION PUMP INFORMATION

MANUFACTURER : FILTER PUMP IND MODEL NUMBER : P-6A
SERIAL NUMBER: P89830/P89831 HP : 7.5 RPM : 3500\2900
BRKR LOCATION: NEXT TO UNIT FED FROM MCC : MCCT-D4

FAN INFORMATION

HARRIS ID # : F54E13
MANUFACTURER : HEIL MODEL NUMBER: 42HBI
SERIAL NUMBER: F-108 MATERIAL : FIBERG.REINFORCED PLASTIC
DESCRIPTION : CENTRIFUGAL BLOWER, BACKWARD INCLINED BLADES

DESIGN DATA
VOLUME FLOW RATE (CFM): 17,000 STATIC PRESS (IN): 5.0
SPEED (RPM): 790

ACTUAL DATA
VOLUME FLOW RATE (CFM): 16,000 STATIC PRESS (IN): 3.0
SPEED (RPM) : DATE : 6/22/91

FAN MOTOR INFORMATION

MANUFACTURER : BALDOR IND MOTOR MODEL NUMBER: M41151
SERIAL NUMBER: 10/78 HP: 50 SPEED (RPM): 1760

BRKR LOCATION: NEXT TO UNIT FED FROM MCC: MCCT-D4

PERMIT HISTORY

PERMIT NUMBER: AO 05-38488
DATE EXPIRED : 04/08/86

PERMIT NUMBER: AO 05-115804
DATE EXPIRED : 05/22/91 (SUPERCEEDED)

PERMIT NUMBER: AC 05-147321
DATE EXPIRED : 06/30/91 (SUPERCEEDED)

PERMIT NUMBER:
DATE EXPIRED :

HARRIS SEMICONDUCTOR -- AIR PERMIT INFORMATION

CURRENT PERMIT

BUILDING: 54
PERMIT NUMBER: AC 05-190800
PERMIT TYPE : CONSTRUCTION
DATE ISSUED : 02/28/91
RENEWAL DATE:
DATE EXPIRES: 12/31/91

AREA SERVED: BUILDING 54 EAST SIDE
PROCESS DESCRIPTION: ACID AND VOC/SOLVENT SCRUBBER

BLDG PERMIT INFORMATION

VOL. RATE (SCFM): 30,000
ACID MIST(TON/YR): 9.9
SOLV/VOCS(TON/YR): 75.5

OPER. (HRS/YEAR): 8760

SPECIFIC CONDITIONS

ANNUAL OPERATING REPORT : 03/31
NOTIFICATION OF VE TEST : N/A
ANNUAL VIS EMISSION TEST: N/A

SCRUBBER INFORMATION

MANUFACTURER : BEVERLY PACIFIC
SERIAL NUMBER: F-600
HARRIS ID NUMBER: F54S03
MODEL NUMBER : PS-24HT
MATERIAL : FIBERGLASS REINFORCED PLASTIC
LOCATION : B54 GROUND NORTHEAST CORNER, SOUTHERLY POSITION

DESCRIPTION : HORIZONTAL CROSS FLOW, NON-CLOGGING PVC SPRAY NOZZLES, POLYPROPYLENE PACKING, PVC MIST ELIMINATOR

DESIGN DATA

VOLUME FLOW RATE (CFM): 30,000
RECIRCULATION RATE (GPM): 175
MAKE UP WATER RATE (GPM): 12
PRESSURE DROP (IN): 2
STACK HEIGHT (FT): 65
STACK DIAMETER (IN): 60/48
STACK VELOCITY (FPM): 3400

ACTUAL DATA

VOLUME FLOW RATE (CFM): 29,000
RECIRCULATION RATE (GPM): 165
DATE: 9/10/91
PRESSURE DROP (IN):
MAKE UP WATER RATE (GPM): 5

RECIRCULATION PUMP INFORMATION

MANUFACTURER : FILTER PUMP IND
SERIAL NUMBER: 89828/89829
BRKR LOCATION: NEXT TO UNIT
MODEL NUMBER : P-7.5
HP : 7.5 RPM : 3500/2900
FED FROM MCC : MCCS-B5
MCCS-A1

FAN INFORMATION

HARRIS ID # :
MANUFACTURER : VIRON
SERIAL NUMBER: 10619
MODEL NUMBER: VCF-144
MATERIAL : FIBERG.REINFORCED PLASTIC
DESCRIPTION : CENTIFUGAL TYPE, CLASS II, BACKWARD INCLINED BLADES

DESIGN DATA
VOLUME FLOW RATE (CFM): 30,000 STATIC PRESS (IN): 5.0
SPEED (RPM): 1760

ACTUAL DATA
VOLUME FLOW RATE (CFM): 29,000 STATIC PRESS (IN): 3.0
SPEED (RPM) : DATE : 5/22/91

FAN MOTOR INFORMATION

MANUFACTURER : BALDOR IND. MOTOR MODEL NUMBER:
SERIAL NUMBER: M4110T HP: 40 SPEED (RPM): 1760

BRKR LOCATION: NEXT TO UNIT FED FROM MCC:

PERMIT HISTORY

PERMIT NUMBER: AO 05-38488
DATE EXPIRED : 04/09/81

PERMIT NUMBER: AO 05-115804
DATE EXPIRED : 5/22/91 (SUPERCEDED)

PERMIT NUMBER: AC 05-147321
DATE EXPIRED : 06/30/91 (SUPERCEDED)

PERMIT NUMBER:
DATE EXPIRED :

HARRIS SEMICONDUCTOR -- AIR PERMIT INFORMATION

CURRENT PERMIT

BUILDING: 55 DATE ISSUED : 02/28/91
PERMIT NUMBER: AC 05-190799 RENEWAL DATE:
PERMIT TYPE : CONSTRUCTION DATE EXPIRES: 12/31/91

AREA SERVED: BUILDING 55
PROCESS DESCRIPTION: ACID AND VOC/SOLVENT SCRUBBER

BLDG PERMIT INFORMATION

VOL. RATE (SCFM): 9,500
ACID MIST(TON/YR): 0.1
SOLV/VOCS(TON/YR): 0.3

OPER. (HRS/YEAR): 8760

SPECIFIC CONDITIONS

ANNUAL OPERATING REPORT : 3/31
NOTIFICATION OF VE TEST : N/A
ANNUAL VIS EMISSION TEST: N/A

SCRUBBER INFORMATION

MANUFACTURER : TRI-MER CORP. MODEL NUMBER : F/W 3
SERIAL NUMBER: 7026 MATERIAL : PVC
HARRIS ID NUMBER: F55S01
LOCATION : B55 ROOF

DESCRIPTION : HORIZONTAL COUNTER-FLOW, MIST ELIMINATOR, POLYPROPELENE FILTER PACK

DESIGN DATA

VOLUME FLOW RATE (CFM): 9,500 STACK HEIGHT (FT): 12
RECIRCULATION RATE (GPM): 30 STACK DIAMETER (IN): 14
MAKE UP WATER RATE (GPM): 3.0 STACK VELOCITY (FPM):
PRESSURE DROP (IN): 1.5

ACTUAL DATA

VOLUME FLOW RATE (CFM): 7,500 PRESSURE DROP (IN):
RECIRCULATION RATE (GPM): 10 MAKE UP WATER RATE (GPM): 8
DATE: 9/29/91

RECIRCULATION PUMP INFORMATION

MANUFACTURER : FLOTEK MODEL NUMBER : C7P3-1194V
SERIAL NUMBER: 603887B801 HP : 2 RPM : 3450/2850
BRKR LOCATION: NEXT TO UNIT FED FROM MCC : CKT 25,27,29

FAN INFORMATION

HARRIS ID # : F55E13
MANUFACTURER : TRI-MER CORP. MODEL NUMBER: 24 UB
SERIAL NUMBER: 7026 MATERIAL : PVC
DESCRIPTION : CENTRIFUGAL BLOWER, BACKWARD INCLINED BLADES

DESIGN DATA
VOLUME FLOW RATE (CFM): 7500 STATIC PRESS (IN): 5
SPEED (RPM): 1789

ACTUAL DATA
VOLUME FLOW RATE (CFM): 7500 STATIC PRESS (IN): 3
SPEED (RPM) : DATE : 9/10/91

FAN MOTOR INFORMATION

MANUFACTURER : LINCOLN MODEL NUMBER: 254T
SERIAL NUMBER: 2314895 HP: 15 SPEED (RPM): 1750

BRKR LOCATION: NEXT OT UNIT FED FROM MCC: CKT 7,9,11

PERMIT HISTORY

PERMIT NUMBER: AC 05-104523
DATE EXPIRED : 06/30/86

PERMIT NUMBER: AC 05-164544
DATE EXPIRED : 06/30/91 (SUPERCEDED)

PERMIT NUMBER:
DATE EXPIRED :

PERMIT NUMBER:
DATE EXPIRED :

HARRIS SEMICONDUCTOR -- AIR PERMIT INFORMATION

CURRENT PERMIT

BUILDING: 57 DATE ISSUED : 01/11/91
PERMIT NUMBER: AC 05-189178 RENEWAL DATE:
PERMIT TYPE : CONSTRUCTION DATE EXPIRES: 12/31/91

AREA SERVED: Building 57
PROCESS DESCRIPTION: ACID AND VOC/SOLVENT SCRUBBER

BLDG PERMIT INFORMATION
VOL. RATE (SCFM): 13,500
ACID MIST(TON/YR): 0.2
SOLV/VOCS(TON/YR): 2.0

OPER. (HRS/YEAR): 8760

SPECIFIC CONDITIONS
ANNUAL OPERATING REPORT : 03/31
NOTIFICATION OF VE TEST : N/A
ANNUAL VIS EMISSION TEST: N/A

SCRUBBER INFORMATION

MANUFACTURER : TRI-MER CORP. MODEL NUMBER : F/W 5
SERIAL NUMBER: 7029 MATERIAL : PVC
HARRIS ID NUMBER: F57S01
LOCATION : B57 ROOF CENTER OF BLDG

DESCRIPTION : HORIZONTAL COUNTER-FLOW, MIST ELIMINATOR, POLYPRO FILTER PACK

DESIGN DATA

VOLUME FLOW RATE (CFM): 13,500 STACK HEIGHT (FT): 12
RECIRCULATION RATE (GPM): 36 STACK DIAMETER (IN): 32
MAKE UP WATER RATE (GPM): 2.0 STACK VELOCITY (FPM): 2417
PRESSURE DROP (IN):

ACTUAL DATA

VOLUME FLOW RATE (CFM): 9,328 PRESSURE DROP (IN): 2.8
RECIRCULATION RATE (GPM): 38 MAKE UP WATER RATE (GPM): 4.0
DATE: 09/19/91

RECIRCULATION PUMP INFORMATION

MANUFACTURER : FLOTEC MODEL NUMBER : C8P8-1194V
SERIAL NUMBER: HP : 1.5 RPM : 3450
BRKR LOCATION: NEXT TO UNIT FED FROM MCC : PP 26

FAN INFORMATION

HARRIS ID # : F57E03
MANUFACTURER : TRI-MER CORP. MODEL NUMBER: 30 FAN UB
SERIAL NUMBER: 5397 MATERIAL : PVC
DESCRIPTION : CENTRIFUGAL BLOWER, BACKWARD INCLINED BLADES

DESIGN DATA
VOLUME FLOW RATE (CFM): 13,500 STATIC PRESS (IN): 1.7
SPEED (RPM): 1750

ACTUAL DATA
VOLUME FLOW RATE (CFM): 9,328 STATIC PRESS (IN): 1.1
SPEED (RPM) : DATE : 11/06/90

FAN MOTOR INFORMATION

MANUFACTURER : MODEL NUMBER: 256T
SERIAL NUMBER: R-8361-04-296 HP: 20 SPEED (RPM): 1750

BRKR LOCATION: NEXT TO UNIT FED FROM MCC: PP 26

PERMIT HISTORY

PERMIT NUMBER: AC 05-104522
DATE EXPIRED : 06/30/86

PERMIT NUMBER: AC 05-161706
DATE EXPIRED : 06/30/91

PERMIT NUMBER:
DATE EXPIRED :

PERMIT NUMBER:
DATE EXPIRED :

HARRIS SEMICONDUCTOR -- AIR PERMIT INFORMATION

CURRENT PERMIT

BUILDING: 59 DATE ISSUED : 08/15/90
PERMIT NUMBER: AC 05-180707 RENEWAL DATE: 06/04/91
PERMIT TYPE : CONSTRUCTION DATE EXPIRES: 12/31/91

AREA SERVED: WAFER FAB AND RELIABILITY, BUILDING 59
PROCESS DESCRIPTION: ACID VAPOR SCRUBBER

BLDG PERMIT INFORMATION
VOL. RATE (SCFM): 40,000
ACID MIST(TON/YR): 0.1
SOLV/VOCS(TON/YR): 8.4

OPER. (HRS/YEAR): 8760

SPECIFIC CONDITIONS
ANNUAL OPERATING REPORT : 03/01
NOTIFICATION OF VE TEST : N/A
ANNUAL VIS EMISSION TEST: N/A

SCRUBBER INFORMATION

MANUFACTURER : BEVERLY PACIFIC MODEL NUMBER : PS-40HT
SERIAL NUMBER: F-600 MATERIAL : FIBERGLASS
HARRIS ID NUMBER: F59S01
LOCATION : B59 GROUND WEST SIDE

DESCRIPTION : HORIZONTAL CROSS FLOW, NON-CLOGGING PVC SPRAY NOZZLES, POLYPROPYLENE PACKING, PVC MIST ELIMINATOR, DWG. F-600-1

DESIGN DATA

VOLUME FLOW RATE (CFM): 40,000 STACK HEIGHT (FT): 35
RECIRCULATION RATE (GPM): 175 STACK DIAMETER (IN): 44
MAKE UP WATER RATE (GPM): 17.5 STACK VELOCITY (FPM):
PRESSURE DROP (IN):

ACTUAL DATA

VOLUME FLOW RATE (CFM): 30,838 PRESSURE DROP (IN): 1.5
RECIRCULATION RATE (GPM): 120 MAKE UP WATER RATE (GPM): 5.0
DATE: 09/19/91

RECIRCULATION PUMP INFORMATION

MANUFACTURER : FILTER PUMP INC MODEL NUMBER : 36E188-105
SERIAL NUMBER: F1280 HP : 3 RPM : 3450
BRKR LOCATION: NEXT TO UNIT FED FROM MCC : 5912

FAN INFORMATION

HARRIS ID # :
MANUFACTURER : BEVERLY PACIFIC MODEL NUMBER: CB-49
SERIAL NUMBER: F-600 MATERIAL : FIBERGLASS
DESCRIPTION : CENTRIFUGAL TYPE, CLASS II, BACKWARD CURVED BLADES, DWG. F-600-1

DESIGN DATA
VOLUME FLOW RATE (CFM): 33,384 STATIC PRESS (IN): 5.0
SPEED (RPM): 764

ACTUAL DATA
VOLUME FLOW RATE (CFM): 30,838 STATIC PRESS (IN): 2.8
SPEED (RPM) : DATE : 11/06/90

FAN MOTOR INFORMATION

MANUFACTURER : LINCOLN MODEL NUMBER: 324T
SERIAL NUMBER: HP: SPEED (RPM): 1750

BRKR LOCATION: NEXT TO UNIT FED FROM MCC: 5912, 5913

PERMIT HISTORY

PERMIT NUMBER: AC 05-54991
DATE EXPIRED : 06/01/84

PERMIT NUMBER: AC 05-104516
DATE EXPIRED : 06/30/86

PERMIT NUMBER: AO 05-121924
DATE EXPIRED : 09/14/91

PERMIT NUMBER:
DATE EXPIRED :

HARRIS SEMICONDUCTOR -- AIR PERMIT INFORMATION

CURRENT PERMIT

BUILDING: 59 DATE ISSUED : 08/15/90
PERMIT NUMBER: AC 05-180707 RENEWAL DATE: 06/04/91
PERMIT TYPE : CONSTRUCTION DATE EXPIRES: 12/31/91

AREA SERVED: WAFER FAB AND RELIABILITY LAB, BUILDING 59
PROCESS DESCRIPTION: VOC/SOLVENT SCRUBBER

BLDG PERMIT INFORMATION

VOL. RATE (SCFM): 20,000
ACID MIST(TON/YR): 0.0228
SOLV/VOCS(TON/YR): 1.91

OPER. (HRS/YEAR): 8760

SPECIFIC CONDITIONS

ANNUAL OPERATING REPORT : 03/31
NOTIFICATION OF VE TEST : N/A
ANNUAL VIS EMISSION TEST: N/A

SCRUBBER INFORMATION

MANUFACTURER : BEVERLY PACIFIC MODEL NUMBER : PS-24VT
SERIAL NUMBER: F-600 MATERIAL : FIBERGLASS
HARRIS ID NUMBER: F59S02
LOCATION : B59 GROUND WEST SIDE

DESCRIPTION : VERTICAL COUNTER-CURRENT, NON-CLOGGING PVC SPRAY NOZZLES, POLYPROPYLENE PACKING, PVC MIST ELIMINATOR, DWG. F-600-2

DESIGN DATA

VOLUME FLOW RATE (CFM): 24,000 STACK HEIGHT (FT): 35
RECIRCULATION RATE (GPM): 105 STACK DIAMETER (IN): 42
MAKE UP WATER RATE (GPM): 10.5 STACK VELOCITY (FPM):
PRESSURE DROP (IN):

ACTUAL DATA

VOLUME FLOW RATE (CFM): 10,972 PRESSURE DROP (IN): 0.5
RECIRCULATION RATE (GPM): 64 MAKE UP WATER RATE (GPM): 5.0
DATE: 9/19/91

RECIRCULATION PUMP INFORMATION

MANUFACTURER : FILTER PUMP IND MODEL NUMBER : 36E188-105
SERIAL NUMBER: F1280 HP : 3 RPM : 3450
BRKR LOCATION: NEXT TO UNIT FED FROM MCC : 5912

FAN INFORMATION

HARRIS ID # :
MANUFACTURER : BEVERLY PACIFIC MODEL NUMBER: CB-36
SERIAL NUMBER: F-600 MATERIAL : FIBERGLASS
DESCRIPTION : CENTRIFUGAL TYPE, CLASS II, BACKWARD CURVED BLADES, DWG. F-600-2

DESIGN DATA
VOLUME FLOW RATE (CFM): 16,000 STATIC PRESS (IN): 6.0
SPEED (RPM): 1087

ACTUAL DATA
VOLUME FLOW RATE (CFM): 10,972 STATIC PRESS (IN): 5.6
SPEED (RPM) : 1065 DATE : 11/06/90

FAN MOTOR INFORMATION

MANUFACTURER : LINCOLN MODEL NUMBER: 284T
SERIAL NUMBER: HP: SPEED (RPM): 1750

BRKR LOCATION: NEXT TO UNIT FED FROM MCC: 5912 & 5913

PERMIT HISTORY

PERMIT NUMBER: AC 05-54990
DATE EXPIRED : 06/01/84

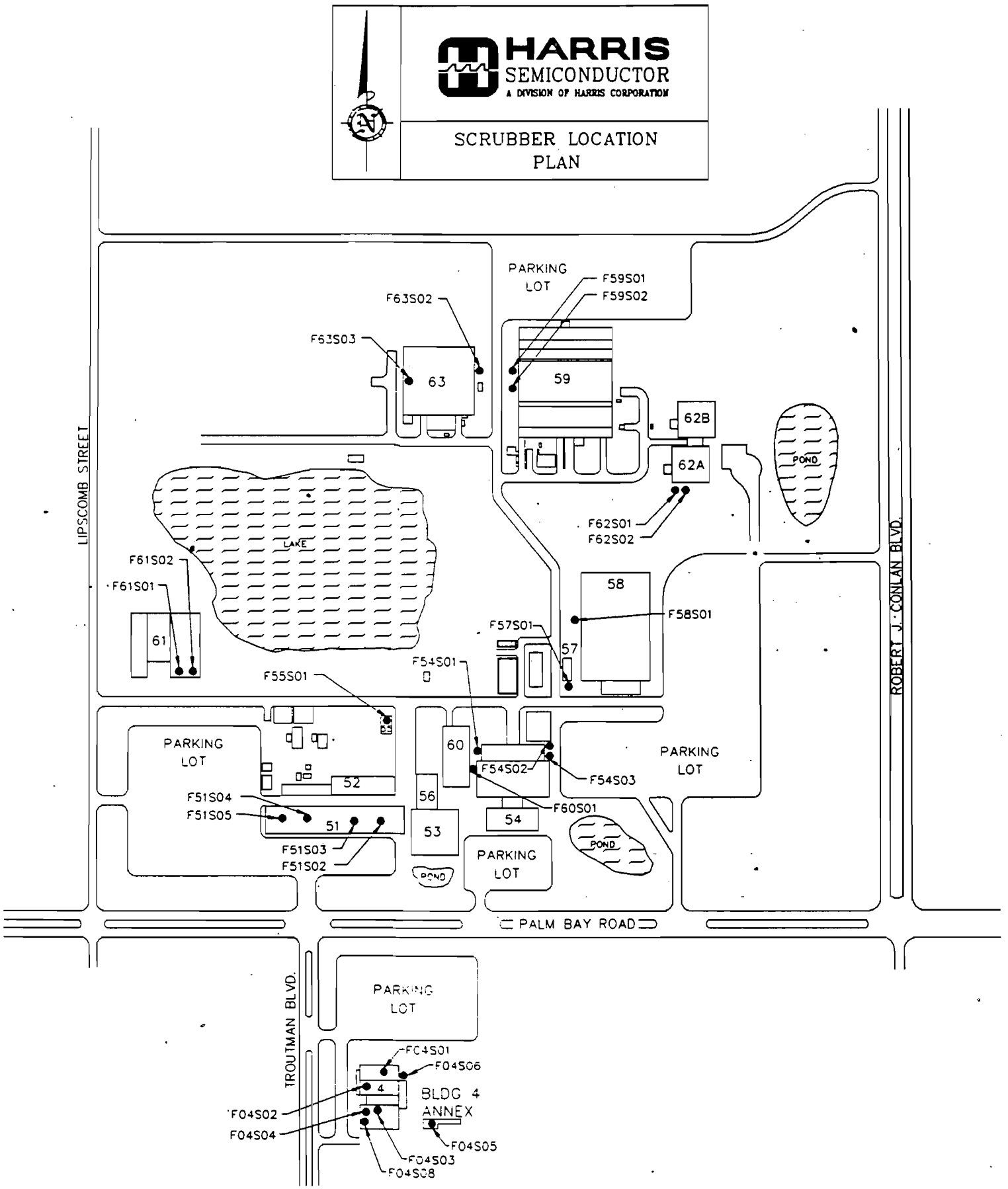
PERMIT NUMBER: AC 05-104515
DATE EXPIRED : 06/30/86

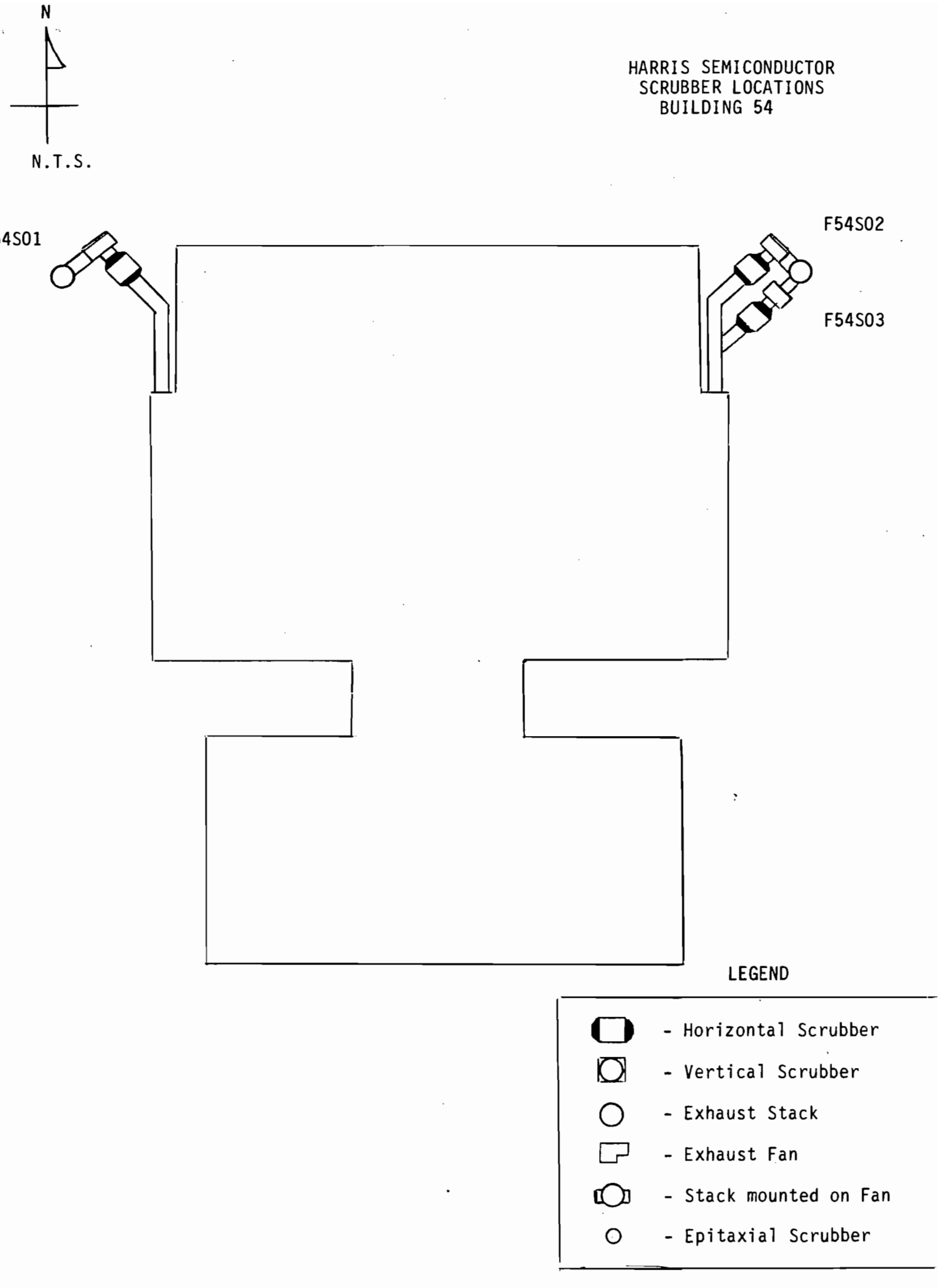
PERMIT NUMBER: AO 05-121924
DATE EXPIRED : 09/14/91

PERMIT NUMBER:
DATE EXPIRED :

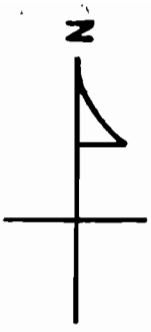
ATTACHMENT E.

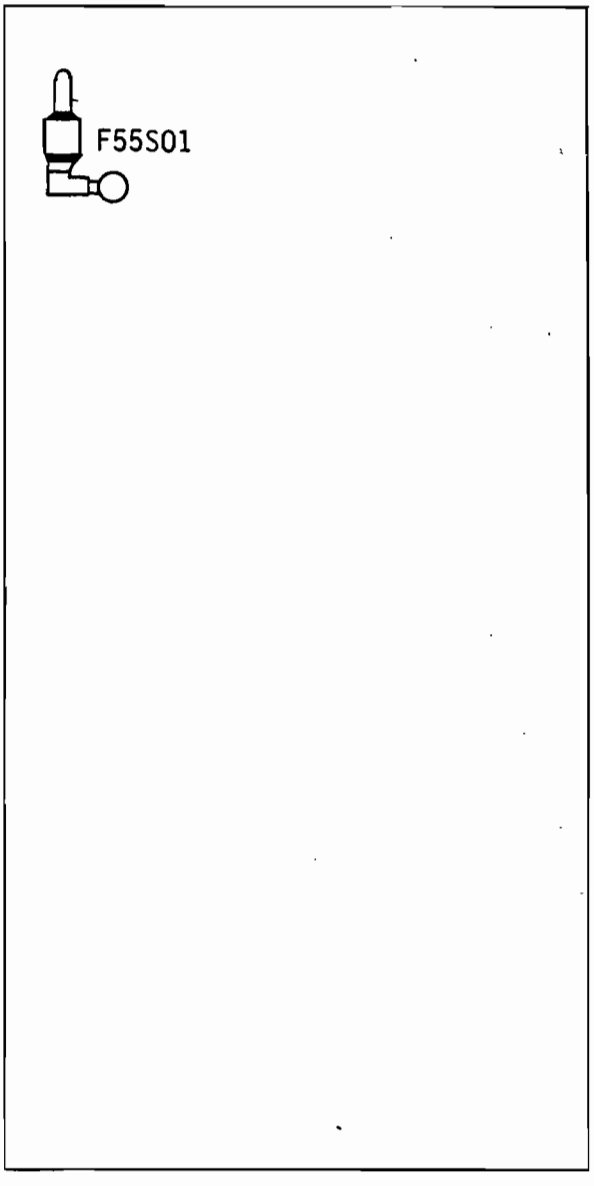
LOCATION MAPS


HARRIS
SEMICONDUCTOR
A DIVISION OF HARRIS CORPORATION
SCRUBBER LOCATION
PLAN
LIPSCOMB STREET
ROBERT J. CONLAN BLVD.
PARKING
LOT
F63S02
F63S03
63
F59S01
F59S02
59
62B
62A
POND
F62S01
F62S02
LAKE
F61S02
F61S01
61
58
F58S01
F57S01
57
F54S01
F55S01
PARKING
LOT
60
F54S02
F54S03
PARKING
LOT
52
56
F60S01
F51S04
F51S05
51
53
54
F51S03
F51S02
POND
PARKING
LOT
POND
PALM BAY ROAD
TROUTMAN BLVD.
PARKING
LOT
F04S01
F04S06
4
BLDG 4
ANNEX
F04S02
F04S04
F04S05
F04S03
F04S08


N
N.T.S.
HARRIS SEMICONDUCTOR
SCRUBBER LOCATIONS
BUILDING 54
F54S01
F54S02
F54S03
LEGEND
- Horizontal Scrubber
- Vertical Scrubber
- Exhaust Stack
- Exhaust Fan
- Stack mounted on Fan
- Epitaxial Scrubber

HARRIS SEMICONDUCTOR
SCRUBBER LOCATIONS
BUILDING 55

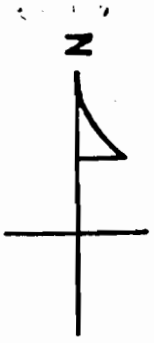


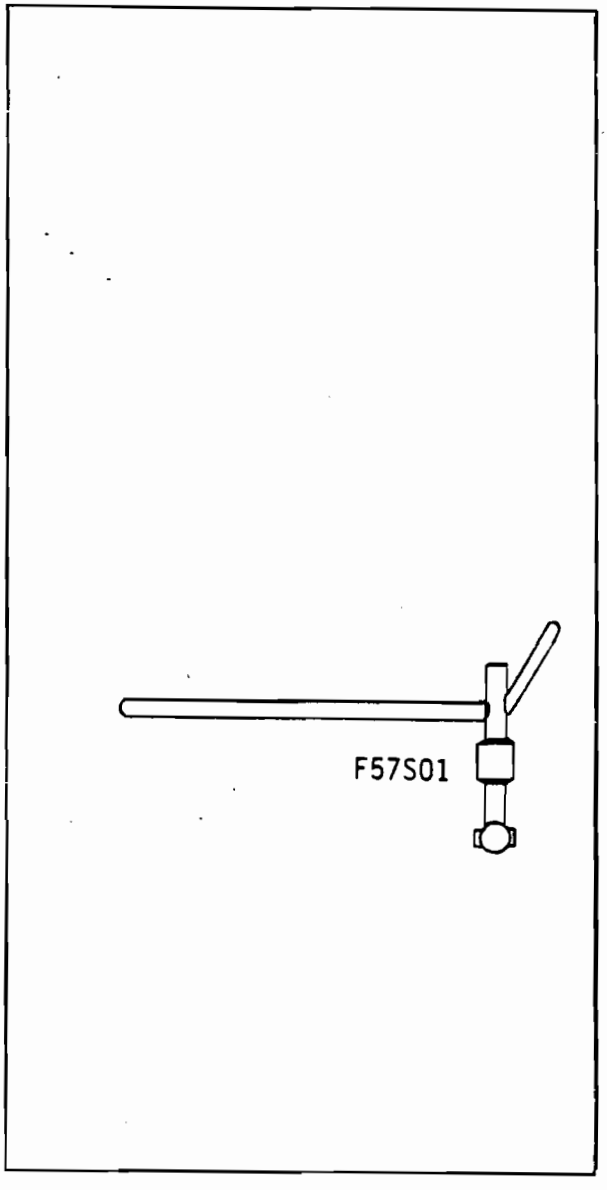


LEGEND

- Horizontal Scrubber
- Vertical Scrubber
- Exhaust Stack
- Exhaust Fan

HARRIS SEMICONDUCTOR
SCRUBBER LOCATIONS
BUILDING 57

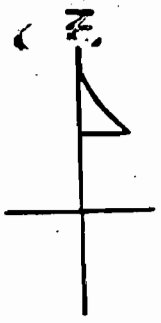


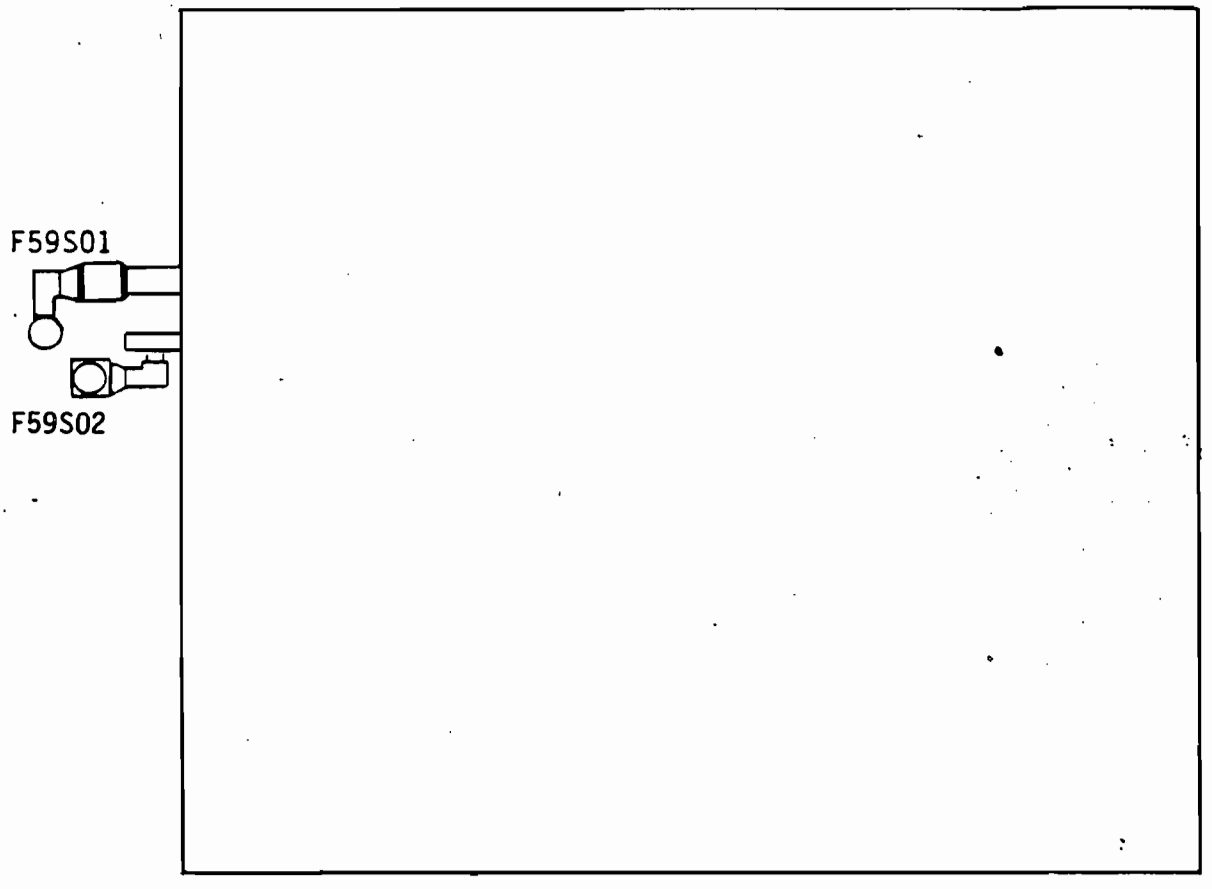


LEGEND

- Horizontal Scrubber
- Vertical Scrubber
- Exhaust Stack
- Exhaust Fan
- Stack mounted on fan
- Epitaxial Scrubber

HARRIS SEMICONDUCTOR
SCRUBBER LOCATIONS
BUILDING 59





LEGEND

- Horizontal Scrubber
- Vertical Scrubber
- Exhaust Stack
- Exhaust Fan
- Stack mounted on fan
- Epitaxial Scrubber