P 938 762 727

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

	Sent to Mr. L. R. Hutker, Harris		
	Street and No. Semiconduc P.O. Box 883		
	P.O., State and ZIP Code Melbourne, FL 32901	, . L	!
•	Postage	S	j
	Certified Fee		!
	Special Delivery Fee		
	Restricted Delivery Fee		;
	Return Receipt showing to whom and Date Delivered		i :
198	Return Receipt showing to whom, Date, and Address of Delivery		.
, Jun	TOTAL Postage and Fees	S	. }
Form 3800, June 1985	Postmark or Date Permit: AC 05-1645 Mailed: 10-27-89	44	
S			}

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will produce you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster 1. Show to whom delivered, date, and addressee's address. (Extra charge)			
3. Article Addressed to: Mr. L. R. Hutker	(Extra charge) 4. Article Number P 938 762 727		
Director, Facilities Dept. Harris Semiconductor P. 0. Box 883 Melbourne, FL 32901	Type of Service: Registered Insured COD Express Mail Return Receipt for Merchandise		
5. Signature — Address	Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if frequenced and see paid)		
6. Signature - Agent Agnis Amul matter 7. Date of Delivery			
PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT			



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT

Mr. L. R. Hutker Director, Facilities Department Harris Semiconductor P. O. Box 883 Melbourne, Florida 32901

October 26, 1989

Enclosed is construction permit No. AC 05-164544 for Harris Semiconductor to consolidate multiple permits previously issued for Building No. 55 at their facility in Palm Bay, Brevard County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

Any party to this permit has the right to seek judicial review of the permit 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 permit is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.

Bureau of Air Regulation

Copy furnished to:

C. Collins, Central District

N. Baldisserotto, Harris Semiconductor

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 10/27/89.

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.

Clerk

bate

Final Determination

Harris Semiconductor Brevard County Palm Bay, Florida

Construction Permit Number AC 05-164544

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

Final Determination

The construction permit application has been reviewed by the Department. Public Notice of the Department's Intent to Issue was published in the Florida Today Newspaper on September 27, 1989. The Technical Evaluation and Preliminary Determination were available for public inspection at the DER's Central District and Division of Air Resources Management offices.

There were no comments received on the proposed action. Therefore, it is recommended that the proposed construction permit be issued as drafted.



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Harris Semiconductor
P. O. Box 883
Melbourne, Florida 32901

Permit Number: AC 05-164544 Expiration Date: April 30, 1990

County: Brevard

Latitude/Longitude: 28° 01' 20" N

80° 36' 10" W

Project: Building 55

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

For the permitting of Building 55, which is a source with the collection, short term storage, and shipping point for waste chemicals from the facility. The scrubber control system is:

o F55SOl: a Harrison 1,000 cfm horizontal cross-flow mist eliminator using polypropylene plastic saddle packing for caustic and corrosive vapor removal; Model No. HF-10.

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 VOC/Solvent Emissions-Fugitive 4-01-888-01 Tons Product

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

Attachments to be Incorporated:

- Application to Construct Air Pollution Sources, DER Form 17-1.202(1), and Mr. James R. Kolanek's cover letter received May 8, 1989.
- 2. C. H. Fancy's letter dated June 6, 1989.
- 3. Nancy Baldisserotto's letter with attachment received June 30, 1989.
- 4. Technical Evaluation and Preliminary Determination dated September 1, 1989.

Permit Number: AC 05-164544 Expiration Date: April 30, 1990

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.

Permit Number: AC 05-164544
Expiration Date: April 30, 1990

GENERAL CONDITIONS:

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.

- 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.

Permit Number: AC 05-164544 Expiration Date: April 30, 1990

GENERAL CONDITIONS:

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 proscribed 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.
- 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.

Permit Number: AC 05-164544 Expiration Date: April 30, 1990

GENERAL CONDITIONS:

- 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.
- 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/solvent emissions (fugitive) from Building No. 55 shall be 0.3 tons per year.
- 2. Permitted hours of operation are 8760.
- 3. Objectionable odors shall not be allowed off plant property.
- 4. 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/solvent losses from processing storage containers.
- 5. 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/solvent emissions limit for Building No. 55. The emissions shall be determined by a material balance scheme, verifiable on a monthly basis, and shall include the following where applicable:
- a) a beginning inventory of full containers, cylinders and storage tanks at the beginning of each calendar year;
- b) plus all purchased deliveries after the beginning inventory (verifiable by invoices);
- c) minus all quantities picked-up and shipped-off the premise after the beginning inventory (verifiable by invoices);

Permit Number: AC 05-164544
Expiration Date: April 30, 1990

SPECIFIC CONDITIONS:

d) minus all quantities deep well injected during the calendar year, justified by assumptions and established scrubber efficiencies; and,

- e) minus an ending inventory of full containers, cylinders, and storage tanks.
- 6. This permit will supercede all other permits previously issued on this source/Building No. 55.
- 7. The source/Building No. 55 is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4.
- 8. Projected potential acid emissions are 0.05 TPY.
- 9. The vapor exhaust scrubber must be operating during chemical processing.
- 10. Building No. 55 is subject to the provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation Problems.
- 11. Any modification pursuant to F.A.C. Rule 17-2.100(119), Modification, shall be submitted to the DER's Central District office and the Bureau of Air Regulation (BAR) office for approval.
- 12. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the BAR prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
- 13. 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 or within 45 days after completion of compliance testing, whichever occurs first. 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. Rule 17-4.220).

Issued this // day of October , 1989

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Dale Twachtmann, Secretary



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

	For Routing To Other Than The Addressee	
То:		
To:	Location:	
То:	Locatron:	
From:	· Date:	

Interoffice Memorandum

TO: Dale Twachtmann

FROM: Steve Smallwood

DATE: October 19, 1989

SUBJ: Approval of Construction Permit No. AC 05-164544

Harris Semiconductor

Attached for your approval and signature is a permit prepared by Bureau of Air Regulation for the above mentioned Corporation to consolidate permits previously issued for Building No. 55, which is a source involved with the collection, short term storage, and shipping of waste chemicals from Harris Semiconductor's existing facility in Palm Bay, Brevard County, Florida.

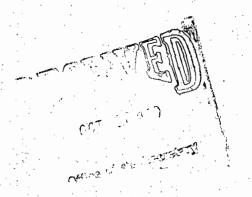
No comments were submitted on the Department's Intent to Issue the permit.

Day 90, after which the permit will be issued by default, is November 6, 1989.

I recommend your approval and signature.

attachment

SS/BM/t



Check Sheet

Company Name: Harris Semiconductor		
Permit Number: AC 05 - 164644		
PSD Number:		
Permit Engineer:		
Application: Initial Application Incompleteness Letters Responses Waiver of Department Action Department Response Other	Cross References:	
Intent: Intent to Issue		
Notice of Intent to Issue		
Technical Evaluation		
BACT Determination		
Unsigned Permit		
Correspondence with:		
□ EPA		
Park Services		
Proof of Publication		
Petitions - (Related to extensions, hearings, etc.)		
Waiver of Department Action		
Other		
Final Determination: Final Determination		
Signed Permit		
BACT Determination		
Other		
Post Permit Correspondence:		
Extensions/Amendments/Modifications		
Other		



Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary

August 29, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Kent Smith, Environmental Manager Harris Semiconductor P. O. Box 883 Melbourne, Florida 32902-0883

Dear Mr. Smith:

Re: Amendment of Construction Permits

AС	05-165757.	Bldg.	04	
	-157786	1	51	
	-147321		54	
	-164544		55	
	-161706		57	
\	-159484		58	
. \	-150794		59	
	-168460		60	
	-157787	. •	62	
	-158237	•	63	

The Department has reviewed Constantine Triantafyllidis' letter received July 19, 1990, requesting that the above referenced air construction permits' expiration dates be extended. The Department is in agreement with the request and the following will be changed and added:

Expiration Date:

From: December 31, 1990

To: June 30, 1991

Attachment to be Incorporated:

o Constantine Triantafyllidis' letter received July 19, 1990.

This letter must be attached to your air construction permits, as referenced above, and shall become a part of the permits.

Sincerely,

STEVE SMALLWOOD, P.

Director

Division of Air Resources
Management

Mr. Kent Smith August 29, 1990 Page 2

Attachment

c: C. Colling, Central Dist. C. Triantafyllidis, HS



July 17, 1990

Mr. Claire Fancy Bureau Chief Bureau of Air Regulation Florida Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, FL 32399-2400

SUL IS 1999 Subject: Extension of Consolidated Construction Permits

Harris Semiconductor, Melbourne

Permit Nos.	Bldg.
AC 05-165757	04
AC 05-157786	51
AC 05-147321	54
AC 05-164544	55
AC 05-161706	57
AC 05-159484	58
AC 05-150794	59
AC 05-168460	60
AC 05-157787	62
AC 05-158237	63

Dear Mr. Fancy:

This letter is submitted, on behalf of Harris Semiconductor Sector, Inc. ("Semiconductor"), to request an extension of the expiration dates of the above-referenced permits until March 31, 1991. We believe the extension is justified for the following reasons. The current specific conditions of these permits require the submission of applications for operating permits by the end of September. As you are aware, over the last several months we have been working with the Department to reduce the potential for Semiconductor's operations to contribute to odors in the areas adjacent to the facility. It is possible that some of the projects we currently have underway to accomplish this objective may not be completed by the end of September. The stack extensions associated with the Building 54 operations should be completed by the end of September. However, another major element of our odor reduction efforts which consists of a facility-wide substitution of certain phenolic process chemicals with non-phenolic ones, where reasonably possible, may not be completed by October 1st. We believe this program is important because these non-phenolic compounds should prove to be much less odoriferous in nature.

Mr. Claire Fancy July 17, 1990 Page 2.

This program is considerably more complex and difficult to implement than the stack extensions. Due to the sophisticated and sensitive nature of the integrated circuits manufactured at the facility, in many instances, a substitution of process chemicals requires customer (which in many instances is the U.S. Government) approval.

The whole project, including necessary customer approval and the actual chemical substitutions, may take several months or more. We believe, from the Department's and Semiconductor's perspective, it would be better to complete this process prior to submission of the applications for operating permits. It should be noted that some chemical changes may not be possible if the U.S. Government objects to the substitution. Should the Department have any questions or require any additional information, please contact our office at 407/729-5301.

Yours sincerely,

Constantine Triantafyllidis
Constantine Triantafyllidis

Environmental Engineer Environmental Services

cc: T. Sawicki

B. Mitcell 7 7 24 90 R.

C. Collins /

E/929/90



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Steve Smallwood

FROM: Clair Fancy

DATE: August 29, 1990

SUBJ: Amendment of Construction Permits

Harris Semiconductor

Attached for your approval and signature is a letter that will amend ten construction permits issued to the above mentioned company to extend their expiration dates. There is no controversy regarding this action.

I recommend your approval and signature.

CF/BM/plm



Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary

January 8, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Kent Smith, Environmental Manager Harris Semiconductor P. O. Box 883 Melbourne, Florida 32902-0883

Dear Mr. Smith:

Re: Amendment of Construction Permits:

Milichanchic Of	COMSCIGCION	T C I III
AC 05-147321	Bldg. 54	
-150794	59	
-157786	51	
-157787	62	
-158237	63	
-159484	. 58	
-161706	57	
-164544	5.5	

The Department has reviewed Ms. Nancy Baldisserotto's letter received December 13, 1989, requesting that the above referenced air construction permits' expiration dates be extended. The Department is in agreement with the basic request and the following will be changed and added:

- A. AC 05-147321, -150794, -157786, -157787, -158237, -159484, -161706 and -164544.
 - o Expiration Date

From: April 30, 1990 To: June 30, 1990

- B. Attachment to be Incorporated
 - o Ms. Nancy Baldisserotto's letter received December 13, 1989.

Mr. Kent Smith Page 2 January 8, 1990

This letter must be attached to your air construction permits, as referenced above, and shall become a part of the permits.

Sincerely,

Daye Twachtmann

Secretary

DT/plm

Attachment

c: C. Collins, Central Dist.

N. Baldisserotto, HS

CAPE PUBLICATIONS, INC.

The Times

THE TRIBUNE

Published Weekly on Wednesday

Before the undersigned authority personally appeared

Published Weekly on Wednesday

RECEIVE



Published Daily

Linda L. Spicer

DER - BAQM

STATE OF FLORIDA COUNTY OF BREVARD

both 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
issued for Building No. 55, consolidate multiple permits
in the Court
<u>. </u>

was published in the FLORIDA TODAY NEWSPAPER
in the issues of September 27, 1989
Affiant further says that the saidFLORIDA 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
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.

Sworn and subscribed to before

27th

Notary Public State of Florida at Jarge My Commission Expires July 20, 1990

cc. B. Mitchell 3 10-3-49

Department of
Environmental Regulation
Notice of Intent to Issue
The Department- of Environmental Regulation hereby gives
notice of its intent to issue a permit to Harris Semiconductor, Post
Office Box 883, Melbourne, Florida 32901, to consolidate multiple
permits previously issued for
Building No. 55, which is a source
involved with the collection, short
term storage, and shipping of
waste chemicals from the facility
located in Brevard County, Florida. A determination of Best
Available Control Technology
(BACT) was not required. The
Department is issuing this Intent
lo 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 pelition for an administrative proceeding (hearing) in accordance with Section
120.57, Florida Statutes. The pelition 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 within
this time period shall constitute a
waiver of any right such person
may have to request an administrative determination:
(a) The name, address, and
telephone number of each peti-

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

facts visioned of facts which e(e) A statement of facts which petitioner contends warrant re-versal or modification of the De-partment's action or proposed action:

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; and 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 application have the right topetition to become a party to the proceeding: The petition must conform to the requirement's 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, F.A.C.

The application is available for nubic inspection during normal 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 2009 p.m. decided the proceeding and process of the person has to request a hearing under Section 120.57, F.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday except legal holidays, at: Department of Environmental Regulation

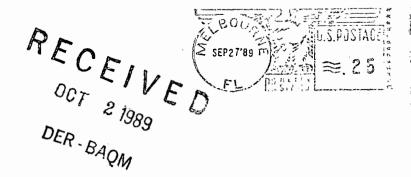
Department of Environmental Regulation Central District 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803-3767
Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Taliahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination, To100439-37-9/27, 1989, Wednesday



FLORIDA TODAY/USA TODAY GANNETT PLAZA P.O. BOX 363000 MELBOURNE, FL 32936







Department of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32301-8241 Attn: C.H. Fancy, P.E.

hillindalahahan illida dalahahallah

PN 9-19-89 Melbourne, FL

BEST AVAILABLE COPY CAPE PUBLICATIONS, INC.

The Times

Published Weekly on Wednesday

THE TRIBUNE

Published Weekly on Wednesday



Published Daily

STATE OF FLORIDA COUNTY OF BREVARD

Before the undersigned o	authority personally appeared	Linda L. Spicer who on
oath says that he/she is.	l a au a l A alau a	rtising Clerk
of the FLOF	RIDA TODAY	_, a newspaper published in Brevard County,
Florida; that the attached Legal Notice	d copy of advertising being a	
	in the matte	er of
application fr	om Harris Semicond	
	in the	Court
was published in the	FLORIDA TO	DAY NEWSPAPER
in the issues of	September 19	,1989
-		
Affiant further says that	the said FLORID	A TODAY NEWSPAPER
		, Florida and that the said newspaper has
	ously published in said Breva second class mail matter at t	rd County, Florida regularly as stated above, he post office in COCOA ,
said Brevard County, Flo	orida for a period of one ye	ar next preceeding the first publication of the
attached copy of adver	tisement; and affiant further	says that he has neither paid nor promised
any person, firm or cor	poration any discount, reba	te, commission or refund for the purpose of
securing this advertiseme	ent for publication in said new	rspaper.

Sworn and subscribed to before methis 19th September

Notary Public, State of Florida at Large

My Commission Expires July 20, 1990

Konida

William Wall

Called for Maney Bi

@ (407)729 - 4061 . no answer third (407)724-7229-1ett a message

a the neoghicalist for Nancy Boldisserutto
to can me back, pan

9.22.89
B3113 Spoke DN.B. She has already sent the PN to the Ram

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION In the Matter of Application for Permit by: DER File No. AC 05-164544 Harris Semiconductor Post Office Box 883 Melbourne, Florida 32901

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit (copy atfached) for the proposed project as detailed in the application specified above. The Department is issuing this intent to Issue for the reasons stated in the atfached Technical Evaluation and Preliminary Determination.

The applicant, Harris Semiconductor, applied on May 8, 1989, to the Department of Environmental Regulation for, a permit to consolidate multiple permits previously issued for Building No. 55, which is a source involved with the collection, short term storage, and shipping of waste chemicals from the facility. The proposed project will occur at the applicant's existing facility located in Palm Bay, Brevard County, Florida.

The Department has permitting lurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit is required for the proposed work. Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Infent to Issue Permit. The notice shall be published one time only within 30 days, in the legal adsection 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. For the purpose of this rule, "publication in 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. For the purpose of this rule, "publication in 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. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected. For the publication for the publication in a newspaper o

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(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 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 filled, the administrative hearing process is designed to formulate agency action. A ccord ingly, 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 application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filled (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, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION /s/C. H. Fangly

Regulation T0097609-1T-9/19, 1989, Tuesday

P 938 762 672

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Reverse)

[Ment of L. R. Hutker Direction, Facilities Dept. Harris Semiconductor P.O. Stabourd 280 ode Melbourne, FL 32901 Postage" S		
	Certified Fee		
İ	Special Delivery Fee		
	Restricted Delivery Fee		
	Return Receipt showing to whom and Date Delivered		
1985	Return Receipt showing to whom, Date, and Address of Delivery		
June	TOTAL Postage and Fees	S	
3800,	Postmark or Date		
PS Form 3800, June 1985	mailed: 9/6/89 AC 05-164544		

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery (Extra charge)		
3. Article Addressed to:	4. Article Number	
L. R. Hutker	P 938 762 672	
Director, Facilities Dept.	Type of Service:	
Harris Semiconductor	☐ Registered ☐ Insured	
P.O. Box 883	☐ COD ☐ Return Receipt	
Melbourne, FL 32901	Express Mail For Merchandise	
	Always obtain signatures addressee or agent an colored DELLY ENED	
5. Signature - Address	8. Addresse's Address VONLY if	
X	requested and fee pend)	
6. Signature - Agent Lemis Demine	Les Jan	
* 1 1. Whi & Seadon		
7. Date of Delivery	VPS	
PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT		



Florida Department of Environmental Regulation

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

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

September 5, 1989

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. L. R. Hutker Director, Facilities Department Harris Semiconductor Post Office Box 883 Melbourne, Florida 32901

Dear Mr. Hutker:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for Harris Semiconductor to consolidate multiple permits previously issued for Building No. 55, which is a source involved with the collection, short term storage, and shipping of waste chemicals from the facility.

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

Sincerely,

C. H. Fancy, P.E.

Bureau of Air Regulation

CHF/BM/kt

Attachments

C. Collins, C District N. Baldisserotto, HS

> BruceMitchell Roading

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of Application for Permit by:

Harris Semiconductor Post Office Box 883 Melbourne, Florida 32901

DER File No. AC 05-164544

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application 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 May 8, 1989, to the Department of Environmental Regulation for a permit to consolidate multiple permits previously issued for Building No. 55, which is a source involved with the collection, short term storage, and shipping of waste chemicals from the facility. The proposed project will occur at the applicant's existing facility located in Palm Bay, Brevard County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit is required for the proposed work.

Pursuant to Section 403.815, F.S. and DER 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 Permit. 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. The applicant shall provide proof of publication to the Department, at the address specified 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 permit.

The Department will issue the permit 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 Florida Statutes. The petition must contain 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 constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

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.

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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.

Bureau of Air Regulation

Copies furnished to:

C. Collins, C District

N. Baldisserotto, HS

CERTIFICATE OF SERVICE

	The	under	signe	d duly	des	ignated	dej	puty cl	lerk	here	∍by	
certi	ifies	that	this	NOTIC	E OF	INTENT	TO	ISSUE	and	all	copies	were
maile	ed be	fore	the c	lose o	f bu	siness	on _	9-	-6-	89		

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.

Clerk Date

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

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to Harris Semiconductor, Post Office Box 883, Melbourne, Florida 32901, to consolidate multiple permits previously issued for Building No. 55, which is a source involved with the collection, short term storage, and shipping of waste chemicals from the facility. The proposed project will occur at the applicant's existing facility located in Brevard County, Florida. 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. 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, Florida Statutes.

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:
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The application is available for public inspection during normal 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. Bill Thomas at the Department's Tallahassee address. All comments mailed 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

AC 05-164544

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

September 5, 1989

I. Application

A. Applicant

Harris Semiconductor Post Office Box 883 Melbourne, Florida 32901

B. Project and Location

The applicant has applied for a construction permit for Building No. 55 in order to consolidate multiple permits previously issued for this source/building.

The existing facility is located on Palm Bay Road, City of Palm Bay, Florida. The UTM coordinates are Zone 17, 538.7 km East and 3100.9 km North.

C. Process and Controls

1. Building 55

Building 55 is used for the collection, short term storage, and shipping point for waste chemicals from the facility. The building houses three exhausted wet stations; two are acid bottle wash stations, and the third station is used 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 at the facility).

The above mentioned wet stations are exhausted to acid scrubber number F55S01, which is located on the roof of the building.

In order to provide ventilation to the hazardous waste handling area, two ventilation fans are located on the roof of the building.

2. General

A material balance scheme will be used to account for the annual VOC/solvent emissions released into the atmosphere by the building/source and facility.

The Standard Industrial Classification Codes are:

- o Major Group 36: Electrical and Electronic Machinery, Equipment, and Supplies
- o Industry Group No. 367: Electronic Components and Accessories
- o Industry No. 3674: Semiconductors and Related Devices

The Source Classification Codes are: Major Group 36

- o Cold Solvent Cleaning/Stripping
- o Building 55 4-01-888-01 Tons Product (fugitive)

II. Rule Applicability

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

The application package was deemed complete on June 30, 1989.

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/solvent threshold for triggering new source review pursuant to F.A.C. Rule 17-2.500(5) is 250 TPY.

The following table presents the projected potential acid emissions from Building No. 55:

Table 1

Source	Potential	Acid	Emissions	(TPY)	
Building 55					
o F55S01	•	0.05			

Note: Annual hours of operation at 8760.

The following table presents the projected potential VOC/solvent emissions from Building 55 and the entire facility:

Table 2

Building	Potential VOC/solvent Emissions (TPY)
4	10.96
51	33.29
54	95.65
55	0.28 (fugitive)
57	1.66
58	3.24
59 .	0.50
60	trace
61	0.25
62	0.83
63	<u>6.14</u>
	Total: 152.78

Note: Annual hours of operation at 8760.

Since the potential emissions are less than 250 TPY for the facility, the potential emissions projected from Building 55 will be reviewed pursuant to F.A.C. Rule 17-2.520, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements.

Since there is no specific emission limiting standard contained in F.A.C. Rule 17-2.600 nor is there any standards of performance for new stationary sources contained in F.A.C. Rule 17-2.660, the source/Building 55 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(132).

The building operations/source is subject to the 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 this building/source are VOC/solvents in accordance with F.A.C. Rule 17-2.620.

Specific acid solutions and other chemicals are also being processed at the building. There are no specific emission limiting standards for these specific acids and chemicals. However, the vapors will be scrubbed to reduce emissions.

The following table presents the maximum allowable VOC/solvent emissions from Building 55 in TPY:

Table 3

Maximum Allowable
Building VOC/Solvent Emissions (TPY)

55 0.

Note: Annual hours of operation at 8760.

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

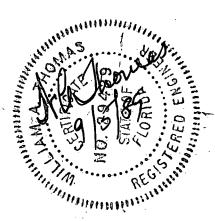
B. Air Quality Impacts

From the technical review of the application packages and supplementary material, an air quality analysis was not required.

V. Conclusion

A system of material balance will be used to account for and verify pollutant emissions from the facility and each building/source.

Based on the information provided by Harris Semiconductor, the Department has reasonable assurance that the consolidation of multiple permits previously issued for this source/building, 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.





Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Harris Semiconductor
P. O. Box 883
Melbourne, Florida 32901

Permit Number: AC 05-164544 Expiration Date: April 30, 1990

County: Brevard

Latitude/Longitude: 28° 01' 20" N

80° 36' 10" W

Project: Building 55

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

For the permitting of Building 55, which is a source with the collection, short term storage, and shipping point for waste chemicals from the facility. The scrubber control system is:

o F55SOl: a Harrison 1,000 cfm horizontal cross-flow mist eliminator using polypropylene plastic saddle packing for caustic and corrosive vapor removal; Model No. HF-10.

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 VOC/Solvent Emissions-Fugitive 4-01-888-01 Tons Product

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

Attachments to be Incorporated:

- 1. Application to Construct Air Pollution Sources, DER Form 17-1.202(1), and Mr. James R. Kolanek's cover letter received May 8, 1989.
- 2. C. H. Fancy's letter dated June 6, 1989.
- 3. Nancy Baldisserotto's letter with attachment received June 30, 1989.
- 4. Technical Evaluation and Preliminary Determination dated September 1, 1989.

Permit Number: AC 05-164544

Expiration Date: April 30, 1990

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.

Permit Number: AC 05-164544
Expiration Date: April 30, 1990

GENERAL CONDITIONS:

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.

- 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.

Permit Number: AC 05-164544
Expiration Date: April 30, 1990

GENERAL CONDITIONS:

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 proscribed 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.
- 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.

Permit Number: AC 05-164544
Expiration Date: April 30, 1990

GENERAL CONDITIONS:

- 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.
- 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/solvent emissions (fugitive) from Building No. 55 shall be 0.3 tons per year.
- 2. Permitted hours of operation are 8760.
- 3. Objectionable odors shall not be allowed off plant property.
- 4. An inspection and maintenance plan shall be submitted to the DER's Central Florida District office as part of the operating permit application. The plan shall include provisions for the prevention and correction of VOC/solvent losses from processing storage containers.
- 5. By March 31 of each calendar year, an annual operating report shall be submitted to the DER's Central Florida District office demonstrating compliance with the VOC/solvent emissions limit for Building No. 55. The emissions shall be determined by a material balance scheme, verifiable on a monthly basis, and shall include the following where applicable:
- a) a beginning inventory of full containers, cylinders and storage tanks at the beginning of each calendar year;
- b) plus all purchased deliveries after the beginning inventory (verifiable by invoices);
- c) minus all quantities picked-up and shipped-off the premise after the beginning inventory (verifiable by invoices);

Permit Number: AC 05-164544 Expiration Date: April 30, 1990

SPECIFIC CONDITIONS:

d) minus all quantities deep well injected during the calendar year, justified by assumptions and established scrubber efficiencies; and,

- e) minus an ending inventory of full containers, cylinders, and storage tanks.
- 6. This permit will supercede all other permits previously issued on this source/Building No. 55.
- 7. The source/Building No. 55 is subject to all applicable provisions of F.A.C. Chapters 17-2 and 17-4.
- 8. Projected potential acid emissions are 0.05 TPY.
- 9. The vapor exhaust scrubber must be operating during chemical processing.
- 10. Building No. 55 is subject to the provisions of F.A.C. Rules 17-2.240: Circumvention; 17-2.250: Excess Emissions; and, 17-4.130: Plant Operation Problems.
- 11. Any modification pursuant to F.A.C. Rule 17-2.100(119), Modification, shall be submitted to the DER's Central Florida District office and the Bureau of Air Regulation office for approval.
- 12. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the BAQM prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
- 13. An application for an operation permit must be submitted to the Central Florida District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. 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. Rule 17-4.220).

Issued this	day , 1989
STATE OF FLORIDA OF ENVIRONMENTAL	
Dale Twachtmann,	Secretary



6-28-89 Melbourne, FL

RECEIVED

JUN 30 1989

June 26, 1989

DER-BAOM

Mr. Claire Fancy
Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

SUBJECT: Completeness Review of AC 05-164544

Building 55 - Permit Consolidation

Dear Mr. Fancy:

This letter is written on behalf of Harris Semiconductor, in reply to your letter of June 6, 1989. Your letter requested additional information on two items.

- 1. The maximum potential emissions of boron tribromide and phosphorus oxychloride are the same as were projected and contained in construction permit no. AC 05-104523.
- 2. The "waste solvents" in the chemical list for building 55 are spent solvents from our manufacturing processes. The solvents are brought to building 55 in closed bottles and containers strictly for storage prior to lab-packing and disposal offsite. No processing or utilization of solvents occurs in building 55, and because the chemicals are in closed containers, emissions are assumed to be minuscule.

One potential source of solvent emissions identified are fugitive emissions resulting from the building's bottle crushing operation. Empty, capped glass and plastic solvent bottles are brought to the building in bins or 'gondolas', and are flattened in bottle crushers. Assuming that all of the bottles are saturated with gaseous solvent vapors, approximately 554.04 lbs/yr (0.277 TPY) of emissions may occur. Attachment A demonstrates the methodology and calculations utilized to derive this fugitive emission figure. Please note that this emission value assumes 'worst case' conditions. In fact, not all bottles are likely to be saturated with solvent vapors, hence actual fugitive emissions from this source may be less.

F. J. T. Return To Path, 500 6/11/23/4/10

181 Est

63-05-9

N. A. Baldisserotto, MS59-006



HARRIS CORPORATION

SEMICONDUCTOR SECTOR
P.O. BOX 883
MELBOURNE, FLORIDA 32902-0883

Mr. Claire Fancy
Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

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If you should have any questions about the enclosed information, please feel free to contact me at (407) 729-4061.

Sincerely,

Nancy Baldisserotto Environmental Engineer Environmental Services Dept.

attachment

cc: A. T. Sawicki, Orlando DER
Bruce Mitchell, Tallahassee DER copied & cop

Mancy Baldisserotto

ATTACHMENT A.

POTENTIAL SOLVENT EMISSIONS RESULTING FROM BOTTLE CRUSHING OPERATION --- BLDG. 55

waste solvent components	percent %	volume of air (cu ft)	volume of air (liters)	VAPOR PRESS. (Torr)	# OF MOLES (n)	MW	EMISSN (1b/yr)
ACETONE METHANOL	33.0 21.0	7341.8 4672.1	207920.9 132313.3	200.0	2236.3 853.9	58 32	285.94 60.24
IPA	13.0	2892.2	81908.2	17.0	74.9	60	9.90
PGMEA	2.5	556.2	15751.6	3.8	3.2	132	0.94
CELLOSOLVE ACETATE	0.3	55.6	1575.2	10.0	0.8	132	0.25
ETHANOL	0.8	178.0	5040.5	54.2	14.7	46	1.49
FREON TF	3.2	711.9	20162.0	334.0	362.1	188	150.09
MISC. SOLVENTS	4.0	889.9	25202.5	100.0	135.5	100	29.88
N-BUTYL ACETATE	3.0	667.4	18901.9	8.7	8.8	115	2.24
TOLUENE	5.0	1112.4	31503.2	29.0	49.1	92	9.96
TCE	0.6	133.5	3780.4	18.0	3.7	132	1.06
TCA	0.1	22.2	630.1	120.0	4.1	134	1.20
XYLENE	1.5	333.7	9451.0	7.0	3.6	106	0.83
WATER	12.0	2669.8	75607.6	N/A	N/A	N/A	N/A
						TOTAL	554.04

- Records from January 1st through May 30th, 1989, indicate an average of 32 gondolas/week of one gallon solvent bottles are crushed in building 55.

```
(32 gondolas/week)(52 weeks/year) = 1664 gondolas/year
(1664 gondolas/yr)(~100 bottles/gondola) = 166400 bottles/year
(166400 \text{ gallons})(0.1337 \text{ cu. ft./gal}) = 22248 \text{ cu. ft. of air}
```

- Waste components are based on solvent waste profile information.
- Remaining calculations are based on the Ideal Gas Law, PV = nRT, where;

P = Vapor pressure of gas (Torr) V = Volume (Liters)

n = number of moles

R = 62.4 (Liters)(Torr)/(moles)(degrees K)

T = temperature (degrees K)

- Additional equations:
- 1.) (cubic feet)(28.32) = liters
- 2.) (# of moles)(grams/mole or MW)(1 lb./453.59 gm) = lbs. of emission

P 938 762 584

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse) Sent to Mr. James R. Kolanek, Harris Semiconductor Street and No. P.O. Box 883 P.O. State and ZIP Code Melbourne, FL 32901 Postage Certified Fee Special Delivery Fee Restricted Delivery Fee Return Receipt showing to whom and Date Delivered Return Receipt showing to whom, Date, and Address of Delivery TOTAL Postage and Fees 3800, Postmark or Date Mailed: 6-6-89 Form: Permit: AC 05-164544

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery (Extra charge)					
3. Article Addressed to:	4. Article Number				
Mr. James R. Kolanek	P 938 762 584				
Manager, Environmental Services Harris Semiconductor P. O. Box 883 Melbourne, FL 32901	Type of Service: Registered Insured COD Express Mail Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED.				
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)				



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

June 6, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. James R. Kolanek
Manager, Environmental Services
Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901

Dear Mr. Kolanek:

Re: Application for Construction Permit - Building 55 AC 05-164544

The Department received the above referenced application package and fee on May 8, 1989. Based on a review of the material, the application is deemed incomplete. Please submit the following information, including all assumptions, calculations and reference material, and the status will, again, be ascertained:

- 1. Are the potential emissions of BBr₃ and POCl₃ the same as that projected and contained in the construction permit No. AC 05-104523? If not, please explain.
- 2. Please describe and project the potential emissions (i.e., lbs/hr and TPY) for the "waste solvents" contained in Attachment C, List of Chemicals.

If there are any questions, please call Bruce Mitchell at (904)488-1344 or write to me at the above address.

Sincerely,

C. H. Fancy, P.E.

Deputy Chief

Bureau of Air Quality

Management

CHF/BM/s

CC: C. Collins, CF District
L. Hutker, P.E., HS
BruceMitchell
Really File



May 2, 1989

RECEIVED

Mr. C. H. Fancy Deputy Bureau Chief Department of Environmental Regulation Bureau of Air Quality Management 2600 Blair Stone Road Tallahassee, Florida 32301

K. Kolanek

1989 8 YAM

DER - BAQM

Reference: HARRIS SEMICONDUCTOR

B-55 Consolidated Air Permit

103)

Dear Mr. Fancy:

On February 17, 1988, representatives from Harris and the Florida DER met in Orlando to discuss the status of air permits at Harris Semiconductor's facility in Palm Bay. At that meeting it was agreed that Harris would submit modified air permits. The purpose of the permit modifications was as follows:

- 1. Consolidate permits on a by building basis to reduce the existing number of permits.
- To accurately quantify the current air emissions.

Enclosed is the modified permit application for Semiconductor's Building 55.

If you should have any questions about the enclosed information, please feel free to contact me at (407) 724-7467, or L. R. Hutker at (407) 724-7229.

Sincepely,

J. R. Kolanek, Manager Environmental Services

/nab

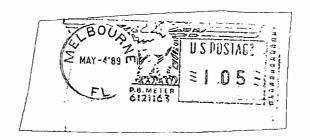
cc:

A. T. Sawicki

L. R. Hutker

D. R. Erdley

R. R. Sands



HARRIS

N. A. Baldisserotto, MS59-006

FIRST CLAS

Mr. C. H. Fancy Deputy Bureau Chief Department of Environmental Regulation Bureau of Air Quality Management 2600 Blari Stone Road Tallahassee, Florida 32301

HARRIS CORPORATION, SEMICONDUCTOR SECTOR, P.O. Box 883, Melbourne, Florida 32901

M80

DEPARTMENT OF ENVIRONMENTAL REGULATION

WIN TOWERS OFFICE BUILDING CE V 2600 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301-8241 MAY 8 1989

Stationary

SOURCE TYPE:

DER Form 17-1.202(1)

Effective October 31, 1982

AC 05-164544

[] New¹ [X] Existing¹

\$ 200 p.d. 5-8-89 Peept:# 117615

BOB GRAHAM

VICTORIA J. TSCHINKEL SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

APPLICATION TYPE: [] Construction [] Op	eration [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 U	nit No. 2, Gas Fired)				
SOURCE LOCATION: Street Palm Bay Road	City Palm Bay				
	North 17-3100900				
Latitude 28 ° 01 ' 20					
APPLICANT NAME AND TITLE: J. R. Kolanek; M.	anager Environmental Services				
APPLICANT ADDRESS: P.U. Box 883, Me	lbourne, F1 32901				
SECTION I: STATEMENTS	BY APPLICANT AND ENGINEER				
A. APPLICANT					
I am the undersigned owner or authorize	d 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: Muss R. Holanek					
	J. R. Kolanek, Manager, Environmental Svcs Name and Title (Please Type)				
•	Date: 4/28/89 Telephone No. (407) 724-7467				
B. PROFESSIONAL ENGINEER REGISTERED IN FLO	RIDA (where required by Chapter 471, F.S.)				
been designed/examined by me and foun principles applicable to the treatment	features of this pollution control project have d to be in conformity with modern engineering and disposal of pollutants characterized in the le assurance, in my professional judgment, that				
1 See Florida Administrative Code Rule 17-2	.100(57) and (104)				

Page 1 of 12

9	
	Signed Bruneuce le Buther
	Lawrence R. Hutker
•	Name (Please Type)
	Harris Semiconductor
	Company Name (Please Type)
	P.O. Box 883, Melbourne, Florida 32901 Mailing Address (Please Type)
ida Registration No. 35972	Date:
	II: GENERAL PROJECT INFORMATION
inis is a modification and co	onsolidation of existing air permits.
	
Schedule of project covered in	n this application (Construction Permit Application On)
·	n this application (Construction Permit Application Onl
Start of Construction N/A Costs of pollution control sys for individual components/unit Information on actual costs st permit.)	Completion of Construction
Start of Construction N/A Costs of pollution control sys for individual components/unit Information on actual costs st	Completion of Construction stem(s): (Note: Show breakdown of estimated costs onl ts of the project serving pollution control purposes. hall be furnished with the application for operation
Start of Construction N/A Costs of pollution control sys for individual components/unit Information on actual costs st permit.)	Completion of Constructionstem(s): (Note: Show breakdown of estimated costs on) ts of the project serving pollution control purposes.
Start of Construction N/A Costs of pollution control sys for individual components/unit Information on actual costs st permit.)	Completion of Construction stem(s): (Note: Show breakdown of estimated costs onl ts of the project serving pollution control purposes. hall be furnished with the application for operation
Start of Construction N/A Costs of pollution control sys for individual components/unit Information on actual costs st permit.)	Completion of Construction stem(s): (Note: Show breakdown of estimated costs onlits of the project serving pollution control purposes. hall be furnished with the application for operation
Start of Construction N/A Costs of pollution control sys for individual components/unit Information on actual costs st permit.) N/A Indicate any pravious DER perm	Completion of Construction stem(s): (Note: Show breakdown of estimated costs only ts of the project serving pollution control purposes. Thall be furnished with the application for operation mits, orders and notices associated with the emission
Start of Construction N/A Costs of pollution control sys for individual components/unit Information on actual costs st permit.) N/A Indicate any previous DER perm point, including permit issues	Completion of Construction stem(s): (Note: Show breakdown of estimated costs only ts of the project serving pollution control purposes. Thall be furnished with the application for operation mits, orders and notices associated with the emission

ffective October 31, 1982

the pollution control facilities, when properly maintained and operated, will discharge

Req	uested permitted equipment operating time: hrs/day 24; days/wk 7	_; wks/yr_5
if	power plant, hrs/yr; if seasonal, describe:	· · · · · · · · · · · · · · · · · · ·
_		
	this is a new source or major modification, answer the following quests or No.)	tions.
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 (SACT) 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
	"Reasonably Available Control Technology" (RACT) requirements apply 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:

	Contam	inants	Utilization		
Description			Rate - lbe/hr	Relate to Flow Diagram	
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
- Airborne Conteminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of	Emiss	ion ¹	Allowed ² Emission Rate per	Allowable ³ Emission	Potent Emiss		Relate to Flow
Contaminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbe/hr	lbs/yr	T/y F	Diagram
SEE ATTAC	HMENT B						
			•			•	
4				·			

¹ See Section V. Itsm 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).

J. Control Devices: (Se	e 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				,
. 34.				
			· · · · · · · · · · · · · · · · · · ·	_
-				

E. Fuels

	Consum	otian*		
Type (3e Specific)	avq/hr	max./hr	Maximum Heat Input (MMBTU/hr)	

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

Fuel Analysis:	·		•
Percent Sulfur:	· · · · · · · · · · · · · · · · · · ·	Percent Ash:	
Density:	lbs/gal	Typical Percent Nitr	ogen:
Heat Capacity:	8TU/ib		STU/gal
F. If applicable, indicate the	percent of fue	l used for space heat	ing.
Annual Average		ximum	
G. Indicate liquid or solid wa Waste water from air scru			•
Plantdischarge to deepw	vell under UIC -	Permit #UC05-126519.	

DER Form 17-1.202(1) Effective November 30, 1982

H. Emissi	ion Stack Ge	ometry and			ACHMENT D			each stack):
Stack Heig	ht:			ft.	Stack D	i ame te	r:	ft.
					•			• F
								FP 5
			I u n IV: not appli		ATOR INFO	ORMATI	ON	
					ge) (Pati			Type VI (Solid By-prod.)
Actual lb/hr Inciner- ated								
Uncon- trolled (lbs/hr)								
Total Weig		ted (lbs/h	·					/hr)
	er	•				•		,
				· -	el No			
			T				· ·	
		Volume (ft) ³	Heat R (BTU	elease /hr)	Typs		BTU/hr	Temperature (°F)
Primary C	hamber						T	
	Chamber							
		ft.	Stack Dia	ater:		·	Stack T	emp.
								FPS
•If 50 ar	•	er day des	ign capac	ity, su	bmit the			n grains per stan-
	llution con					Scrub	ber [] Af	terburner
			[] 0	ther (s	pecify)_			
	7-1.202(1) November 30	. 1982		Page 4	of 12			

	0, 000	racing co	INTECTOR		of contr	or de.A1	Ces:			<u> </u>
	•							,		
	•	-								
Ultimate ash, etc.	of any	effluent	other	then th	et emitt	ed from	the st	eck (eddur per	weter,

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.

- Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- ?. 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.
- Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 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 (l-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 ll" 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).
- 3. An 3 $1/2^n \times 11^n$ plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

ER Form 17-1.202(1) Effective November 30, 1982

9.	The appropriate application fee in accordance payable to the Department of Environ	
10.		, attach a Certificate of Completion of Con- as constructed as shown in the construction
	SECTION VI: BEST AVAIL	ABLE CONTROL TECHNOLOGY
A.	Are standards of performance for new state applicable to the source?	tionary sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Contaminent	Rate or Concentration
8.	Has EPA declared the best available cont yes, attach copy)	rol technology for this class of sources (If
	[] Yes [] No	
	Contaminant	Rate or Concentration
-		
-		
	What amission levels do you propose as be	at available control technology?
· ·	Contaminant	Rate or Concentration
	Concaminant	wate or Concentration
D.	Describe the existing control and treatme	nt technology (if any).
	1. Control Device/System:	2. Operating Principles:
	3. Efficiency:*	4. Capital Costs:

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Explain mathod of determining

Useful Life: 6. Operating Costs: 7. Energy: 8. Maintenance Cost: 9. Emissions: Contaminant Rate or Concentration 10. Stack Parameters Height: ft. Diameter: ft. ACFH d. OF. Flow Rate: Temperature: FPS Velocity: Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary). ı. Control Device: Operating Principles: **b**. Efficiency: 1 d. Capital Cost: Useful Life: f. Operating Cost: Energy 2 Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 2. Control Device: b. Operating Principles: Efficiency: 1 d. Capital Cost: Useful Life: Operating Cost: Energy: 2 Maintenance Cost:

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Explain method of determining efficiency.

Availability of construction materials and process chemicals:

 2 Energy to be reported in units of electrical power - KWH design rate.

Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: Operating Principles: **a** . Efficiency: 1 Capital Cost: Useful Life: Operating Coat: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 4. Control Device: Operating Principles: Efficiency: 1 Capital Costs: ٠. Useful Life: Operating Cost: Energy: 2 Maintenance Cost: q. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: Efficiency: 1 Control Device: 2. Capital Cost: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Manufacturer: Other locations where employed on similar processes:

Applicability to manufacturing processes:

DER Form 17-1.202(1) Effective November 30, 1982

Explain method of determining efficiency.

a. (1) Company:

(3) City: '

(2) Mailing Address:

Energy to be reported in units of electrical power - KWH design rate.

(4) State:

(E) Fautananahal Massassas	
(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 descr	ription of systems:
TOT HOTELS INT SETECTION BING GASET	
	ion when available. Should this information not eason(s) why.
pplicant must provide this informati vailable, applicant must state the re SECTION VII - PREVEN	
pplicant must provide this informati vailable, applicant must state the re SECTION VII - PREVEN Company Monitored Data	eason(s) why.
pplicant must provide this informativallable, applicant must state the respection vil - PREVEN Company Monitored Data 1	eason(s) why. WIION OF SIGNIFICANT DETERIORATION TSP () SO ² * Wind spd/dir
pplicant must provide this informativallable, applicant must state the respection vil - PREVEN Company Monitored Data 1	eason(s) why. WIION OF SIGNIFICANT DETERIORATION TSP () SO ² * Wind spd/dir
pplicant must provide this informativallable, applicant must state the respective of SECTION VII - PREVENT Company Monitored Data 1	TSP () SO2+ Wind spd/dir
pplicant must provide this informativallable, applicant must state the respective to the second state of the second state of the second state of the second state of the second s	TSP () SQ2+ wind spd/dir
pplicant must provide this informativallable, applicant must state the respective of SECTION VII - PREVENT Company Monitored Data 1	TSP () SQ ² * Wind spd/dir th day year month day year maries to this application.

	2.	Instrumentation	n, Field and Laboratory			
	a.	Was instrument	ation EPA referenced or i	ts equivalent?	[] Yes,	[] No
	b.	Was instrument:	ation calibrated in accor	dance with Dep	artment p	cocedures?
		[] Yes [] No	[] Unknown			
8.	Met	eorological Data	used for Air Quality Mo	deling		•
	1.	Year(s)	of data from / /	year month	/ /	; F
	2.	Surface data of	stained from (location)			
	3.	Upper air (mix	ing height) data obtained	from (locatio	n)	
	4.	Stability wind	rose (STAR) data obtaine	d from (locati	on)	· · · · · · · · · · · · · · · · · · ·
۲.	Com	puter Models Use	ed .			,
	1.			Modified?	If yes,	ettech description.
	2.			Modified?	If yes,	attach description.
	3.			Modified?	If yes,	attach description.
	4.	<u> </u>		Modified?	If yes,	attach description.
		ach copies of all le output tables	ll final model runs showi	ng input data,	receptor	locations, and prin
٥.	λpp	licents Maximum	Allowable Emission Data			
	Pol	lutant	Emission Rate			
		TSP		gr	ams/sec	
		so ²		gr	ams/sec	
٤.	Eni	ssion 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., jobe, 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.

HARRIS SEMICONDUCTOR

AIR PERMIT -- BUILDING 55

ATTACHMENT A

PROCESS DESCRIPTION

ATTACHMENT A.

PROCESS DESCRIPTION

Building 55 is the collection, short term storage, and shipping point for waste chemicals from the facility. The building houses three exhausted wet stations; two are acid bottle wash stations, and the third station is used 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.)

The above mentioned wet stations are exhausted to acid scrubber number F55S01, which is located on the roof of the building (see attached control equipment information and scrubber location maps.)

The fume scrubber is utilized on an 'as needed' basis, namely when there is chemical activity under the hooded wet stations.

In order to provide ventilation to the hazardous waste handling area, two ventilation fans are located on the roof of the building.

HARRIS SEMICONDUCTOR

AIR PERMIT - BUILDING 55

ATTACHMENT B

AIR EMISSIONS

ACID MONITORING--BUILDING 55

Monitoring was performed on the building 55 scrubber F55S01 in December of 1988. Samples were collected using modified EPA method 8 sampling train. The impinger medium consisted of a 0.1 N sodium hydroxide solution. 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, phosphite, and sulfate ions--ion chromatography

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

The test results revealed that the total accumulative monitored acid emissions for the building were 0.053 tons/year expressed as hydrochloric, hydrofluoric, nitric, phosphoric and sulfuric acids. This figure is based on a hypothetical production schedule of 8760 hours a year. The monitoring was performed over an 8 hour time interval when the 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.

RESULTS OF ACID MONITORING--BUILDING 55 PERFORMED IN DECEMBER OF 1988 ON THE OUTLET OF SCRUBBER NO. F55SO1

Scrub #		HC1	HF	Nitric Acid	Phosphoric Acid	Sulfuric Acid	TOTAL (TON/YR)
F55S01	(1b/hr)	0.0080	0.0010	0.0010 ;	0.0010	0.0010	1
	(ton/yr)	0.0350	0.0044	0.0044	0.0044	0.0044	0.053

TOTAL ACID EMISSIONS FROM SCRUBBER OUTLET = 0.053 TONS/YEAR

HARRIS SEMICONDUCTOR AIR PERMIT - - BUILDING 55 ATTACHMENT C RAW MATERIALS AND CHEMICALS

BUILDING 55 CONSOLIDATED AIR PERMIT

LIST OF 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 SULFURIC ACID

HARRIS SEMICONDUCTOR

AIR PERMIT - - BUILDING 55

ATTACHMENT D

CONTROL EQUIPMENT

HARRIS SEMICONDUCTOR AIR PERMIT INFORMATION

CURRENT PERMIT

BUILDING: 55

PERMIT NUMBER: AC 05-104523

PERMIT TYPE : CONSTRUCTION

DATE ISSUED : 01/15/86

RENEWAL DATE:

DATE EXPIRES: 06/30/86

AREA SERVED:

PROCESS DESCRIPTION: CHEMICAL VAFOR SCRUBBER

PERMIT LIMITS

VOL. RATE (SCFM): 1,000 ACID MIST (LB/HR): 0.0248

SOLVENTS (LB/HR): --VOCS (LB/HR): --

OPER. (HRS/YEAR):

SPECIFIC CONDITIONS

ANNUAL OPERATING REPORT : NOTIFICATION OF VE TEST : ANNUAL VIS EMISSION TEST:

EQUIPMENT INFORMATION

MANUFACTURER : HARRISON

HARRIS ID NUMBER VOLUME FLOW RATE

RECIRCULATION RATE (GPM): 19 STACK VELOCITY (FPM): 935 MAKEUP WATER RATE (GFM): 2.0 DUCT MATERIAL : poly

MODEL NUMBER : HF-10

: F55S01 STACK HEIGHT (FT): 12

(CFM): 1,000 STACK DIAMETER (IN): 14

: polypro

PERMIT HISTORY

PERMIT NUMBER: AC 05-104523

DATE EXPIRED : 06/30/86

PERMIT NUMBER:

DATE EXPIRED :

PERMIT NUMBER:

DATE EXPIRED :

SCRUBBER INFORMATION ______

HARRIS ID # : F55S01

MANUFACTURER : HARRISON

MODEL NUMBER : HF-10 MATERIAL : POLYPRO SERIAL NUMBER:

DESCRIPTION : HORIZONTAL CROSS-FLOW, PLASTIC SADDLE PACKING, LIQUID

DISTRIBUTION THROUGH MAIN HEADER, NO SPRAY NOZZLES

DESIGN DATA

VOLUME FLOW RATE (CFM): 1,000 PRESSURE DROP (IN):

RECIRCULATION RATE (GPM): 19 MAKE UP RATE (GPM): 2.0

ACTUAL DATA

VOLUME FLOW RATE (CFM): PRESSURE DROP (IN): NE DATE: 06/05/8

RECIRCULATION RATE (GPM): 34 MAKE UP RATE (GPM): 2.5 DATE:

RECIRCULATION FUMP INFORMATION

MANUFACTURER : LELAND FARADAY MODEL NUMBER : 92J305A

SERIAL NUMBER: N/A HP: 0.5 RPM: 3450

BRKR LOCATION: FED FROM MCC:

FAN INFORMATION

HARRIS ID # : F55E04

MANUFACTURER : CRECO MODEL NUMBER: 122

SERIAL NUMBER: N/A MATERIAL : PVC

DESCRIPTION : CENTRIFUGAL BLOWER

DESIGN DATA

VOLUME FLOW RATE (CFM): 1,000 STATIC PRESS (IN): 3.0

SPEED (RFM): DATE: ACTUAL DATA

STATIC FRESS (IN): VOLUME FLOW RATE (CFM): DATE:

FAN MOTOR INFORMATION

MANUFACTURER : MODEL NUMBER :

SERIAL NUMBER: HP : 1.5 RPM : 1750

FED FROM MCC : BRKR LOCATION:

THE HARRISON SYSTEM

Harrison is a prime designer and producer of complete plastic exhaust systems, custom engineered scrubbing systems, as well as duct and fittings, tanks, and hoods. As a result of this capability and experience, design and manufacture of standard, pre-engineered fume scrubbers is a natural extension.

MATERIALS

Self-supporting or fiberglass armored PVC and Polypropylene, fiberglass armored Kynar, and solid fiberglass construction offers a wide range of resistance to acids, alkalis, solvents, and other corrosives at operating temperatures to approximately 250°F. Harrison systems do not use any metal in contact with the process stream.

PRE-ENGINEERING

Pre-engineered design reduces cost by eliminating the necessity to re-invent each item ordered. It results in more reliable service thru improved workmanship achieved by repetitive production control, and speeds quotations and approval drawings because costs and designs are immediately available. In addition to significant savings in approval and order time, Harrison reduces delivery time by stocking scrubber components including packing, support grids, distributor plates, nozzles, duct reducers, and sheet stock.

SCRUBBER CONFIGURATION

Most fume removal applications can be served by the two scrubber designs shown in this catalog Vertical Counter Current style directs liquid down vertically, and unwanted fumes upward in the opposite direction. Horizontal Cross Flow unit directs liquid down vertically, but unwanted fumes are driven horizontally at 90° to the liquid. In both designs, liquid and fumes are inter-mixed in the packed bed section of the scrubber where fumes are removed by chemical reaction or water solubility. Scrubber shape does not affect performance. Horizontal design presents a low profile and is suitable where head room, but use only minimum floor space.

SCRUBBER DESIGN AND OPERATION

Highest scrubber efficiency (volumetric % of contaminate removed) is obtained by having the proper amount of contact surface area (packing) wetted by sufficient liquid (recirculated liquid rate) for an optimum residence time (packing depth) to allow unwanted fumes to take a treacherous path thru the wetted packing to permit their maximum removal from the carrier air stream by chemical reaction or water solubility

Air stream resistance encountered in the packing (static pressure loss) is a function of air velocity, cross-sectional packing area, and packing depth. Harrison scrubbers utilize proven packing depth to achieve efficiencies approaching 99+%, when operated within recommendations.

LIQUID DISTRIBUTION AND MIST ELIMINATION

Simple liquid distribution is achieved thru a main header pipe feeding perforated laterals, without use of troublesome spray nozzles. Nozzles are subject to plugging, and produce a difficult-to-remove atomized mist carryover. In the Harrison design, any large droplets of liquid caught in the upward moving air stream are easily and efficiently removed by a short bed of dry packing located above the liquid distributor.

STATIC PRESSURE LOSS

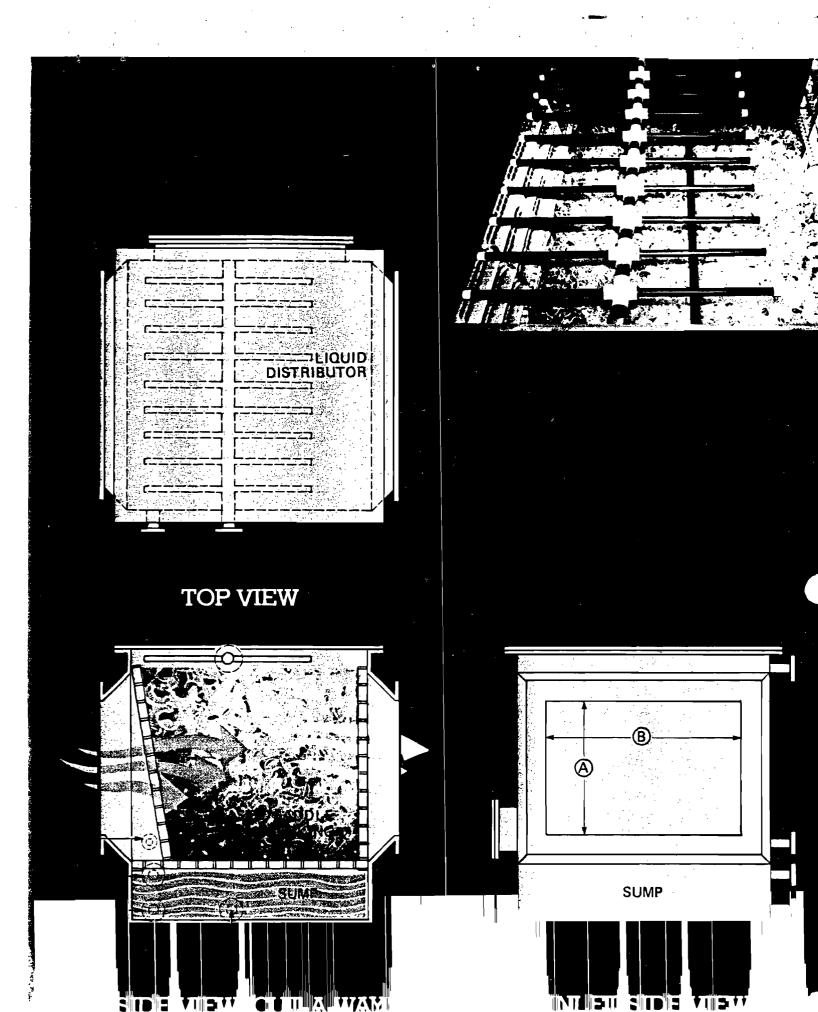
Use of high-surface-area, low-pressure-drop plastic saddles in a balanced design result in low static pressure loss of only 0.4 inches H₂O (w.g.) per foot of packed depth in Vertical Counter Current scrubbers, and 0.33 in Horizontal Cross Flow units. At the same time, sufficient irrigation rates constantly keep saddles clear of potential sludge buildup. Thereby, continuous, non-clogging operation at a proper rate of intermixing turbulence between liquid and fumes is achieved for 99+% efficiency.

LIOUID SUMP OPERATION

Harrison scrubbers employ an integral liquid recirculating sump which reduces amount of liquid consumption required by 90 to 95% in most applications. Therefore, considerably less effluent must be handled and treated. The sump reservoir is contained within the scrubber itself. Harrison recommends optimum rate of effluent removal. When effluent is acidic only, additional liquid conservation can be obtained with either scrubber design with the simple optional recovery system shown with the vertical scrubber drawing on page 4. If central treating facilities exist, no sump, recirculation, or independent recovery is needed. In this case, treated liquid would be directed over the packing in a single pass, then treated, then returned to the scrubber, etc. In both instances where effluent is treated, liquid consumption would be reduced to only that amount lost by evaporation.

Harrison

Box 184 Aurora Ohio 44202/216-562-9545



HORIZONTAL CROSS-FLOW

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HF-25.		24.24	72					1	150		12		357	1166
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HARRIS SEMICONDUCTOR

AIR PERMIT -- BUILDING 55

ATTACHMENT E

SITE LOCATION MAPS

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HARRIS SEMICONDUCTOR SCRUBBER LOCATIONS BUILDING 55

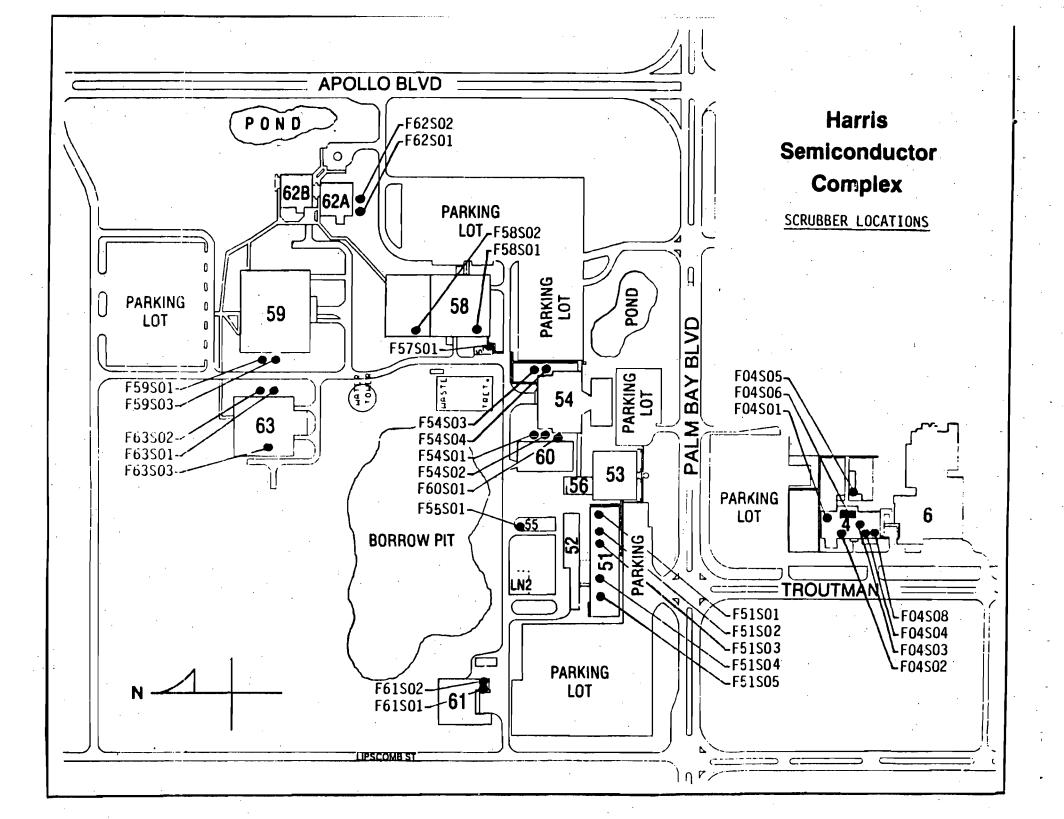
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HARRIS CORPORATION

SEMICONDUCTOR GROUP

TO ORDER OF

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ACCT. NO.

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION 2600 BLAIR STONE ROAD TALLAHASSEE, FLA 32399-2400

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HARRIS SEMICONDUCTOR

AUTHORIZED SIGNATURE

kererence:

HARRIS SEMICONDUCTOR

B-55 Consolidated Air Permit

Dear Mr. Fancy:

On February 17, 1988, representatives from Harris and the Florida DER met in Orlando to discuss the status of air permits at Harris Semiconductor's facility in Palm Bay. At that meeting it was agreed that Harris would submit modified air permits. The purpose of the permit modifications was as follows:

- Consolidate permits on a by building basis to reduce the existing number of permits.
- 2. To accurately quantify the current air emissions.

Enclosed is the modified permit application for Semiconductor's Building 55.

If you should have any questions about the enclosed information, please feel free to contact me at (407) 724-7467, or L. R. Hutker at (407) 724-7229.

Sincerely,

J. R. Kolanek, Manager Environmental Services

/nab

cc:

A. T. Sawicki

L. R. Hutker

D. R. Erdley

R. R. Sands