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DER-BAQM

LEGAL DEPARTMENT

May 14, 1990

Express Mail

Mr. A. Alexander
Deputy Assistant Secretary
Central District
Florida Department of Environmental Regulation
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803

Re: Permit and Application Nos.

A005-121935
A005-121928
AC05-104524
AC05-104512
AC05-104515
AC05-104522
AC05-104525
AC05-104527
AC05-108260
AC05-104521

Dear Mr. Alexander:

This letter is submitted on behalf of Harris Semiconductor Sector, Inc. ("Semiconductor"), a subsidiary of Harris Corporation and is sent in response to the issuance by the Central District of the Department of the enclosed permits and notices of permit denial.

Over two years ago, Semiconductor came to an understanding with the Division of Air Resources Management ("Division") that the sources covered by the permits and applications listed above would be licensed on a building by building basis at Semiconductor's facility in Palm Bay. Pursuant to a schedule established during discussions with representatives of the Division, Semiconductor has obtained permits for all buildings that contain regulated air emission sources, including those listed above. It is important to note that each of these permits contains a specific condition indicating that these permits supercede all other permits previously issued. Clearly, it was the intent of the parties that the applications submitted pursuant to the agreement with the Division would supercede any earlier applications submitted with respect to sources covered by the later applications.

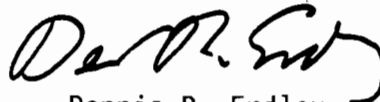
Apparently, through some oversight, the earlier applications were never formally withdrawn. Given the nature of the agreement with the Division, it is questionable whether a formal request to withdraw the applications was necessary. When I talked with the District Staff, over the phone, the week

before last, I indicated Semiconductor was requesting that the applications be withdrawn. For reasons that are unclear, the Staff indicated that it might be too late to withdraw these applications, but that they would get back with me if this was possible. Apparently, I missed or never received any further communication from the Staff.

Because the sources in question are licensed under current permits obtained from the Department pursuant to an understanding reached with the Division, Semiconductor is requesting first that applications corresponding to the above-referenced numbers be withdrawn. If because of some legally enforceable procedural requirement this is not possible, Semiconductor requests that the two permits (A005-121935 & A005-121928) be immediately retired or cancelled.

We appreciate your efforts in resolving this situation. From a legal perspective, it may be helpful to speak with Doug MacLaughlin about these permitting issues. For your convenience, I have express mailed a copy of this letter and the enclosed materials to him. Please give me a call if you have any questions.

Yours truly,



Dennis R. Erdley
Environmental Counsel

cc: C. Collins
D. MacLaughlin
B. Mitchell
K. Smith
B. Thomas

E/116/90
DRE:pc



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Alex Alexander, Deputy Assistant Secretary

NOTICE OF PERMIT

Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901

Attention: L. R. Hutker, P.E.
Director Facilities Department

Brevard County - AP
Building 62 - VOC/Solvent Vapor Exhaust Scrubber

Dear Mr. Hutker:

Enclosed is Permit Number A005-121928, dated 4/30/90, to operate the above referenced source, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to 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.

This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

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

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

c.m.c. Carlos Rivera de Aguilera for

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803

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

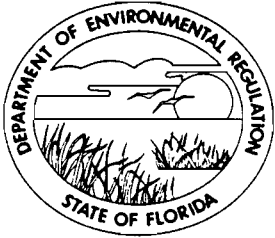
Debra B. Baskin 4/30/90
Clerk Date

ADJ
AA/jtj

Copies furnished to:
Bill Thomas, Tallahassee

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 5-1-90 to the listed persons, by D. Jones.



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Alex Alexander, Deputy Assistant Secretary

Permittee:

Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901

Attention: L. R. Hutker, P.E.
Director Facilities Department

I. D. Number:

Permit/Certification
Number: AO05-121928
Date of Issue:
Expiration Date: **April 30, 1995**
County: Brevard
Latitude/Longitude:
28°01'20"N/80°36'10"W
UTM: 17-538.7 KmE; 3100.9 KmN
Project: Building 62 VOC/Solvent
Vapor Exhaust Scrubber

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. 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:

The permittee can operate hood type work stations for the manufacture of semiconductors in Building 62. A 12,000 dscfm fume scrubber manufactured by Beverly Pacific is installed to control VOC/solvent vapors.

This source is located at Palm Bay Road in Palm Bay, Brevard County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:

I.D. Number:
Permit/Certification Number:
Date of Issue:
Expiration Date:

GENERAL CONDITIONS:

1. *The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727 or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agent, employees, servants or representatives.*
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. Nor 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 does not constitute 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 of 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, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.*
6. *The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:*
 - a. *Having access to and copying any records that must be kept under the conditions of the permit.*
 - b. *Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and*
 - c. *Sampling or monitoring any substances or parameters at any location reasonable 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 notify and provide the department with the following information:*
 - a. *a description of and cause of non-compliance; and*

PERMITTEE:
Harris Semiconductor

Attention: L. R. Hutker, P.E.
Director Facilities Department

I. D. Number:
Permit/Certification Number:
A005-121928
Date of Issue:
Expiration Date: April 30, 1995

SPECIFIC CONDITIONS:

OPERATING LIMITS

1. The maximum operating hours allowed shall be 8 hours per day, 264 days per year, for a total of 2,112 hours per year.
2. A meter to measure the pressure drop shall be installed on the scrubber system.
3. The VOC/solvent vapor exhaust scrubber must be on during the working hours.

EMISSION LIMITS

4. The maximum allowable VOC (volatile organic compounds)/solvent emissions from the work stations and scrubber system shall be 113.4 pounds per year.
5. Objectionable odors shall not be allowed off plant property.

COMPLIANCE TESTING

6. Compliance with the VOC/solvent emissions limit for the working stations and the scrubber system shall be determined through sampling and analysis. A sample shall be taken and analyzed annually from the date of December 1, 1989 to determine the scrubber's efficiency. An annual report, summarizing the sampling results, shall be due sixty (60) days after the anniversary date of the operating permit and is to be submitted to DER's Central District Office.
7. A report shall be submitted annually to DER's Central District Office. The report shall address the entire Harris Semiconductor facility and reflect the amounts of all VOC/solvents by chemical, purchased and reclaimed or disposed of off-site.
8. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.

0.06 tons
Permit limit = 0.36 tons

PERMITTEE:
Harris Semiconductor

Attention: L. R. Hutker, P.E.
Director Facilities Department

I. D. Number:
Permit/Certification Number:
A005-121928
Date of Issue:
Expiration Date: April 30, 1995

EXPIRATION DATE

9. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

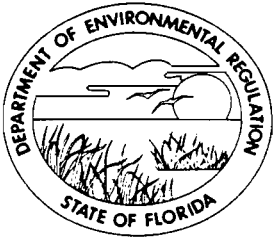
ISSUED

4/30/90

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

cmc *Carla Rivera de Aguiar for*

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary
Alex Alexander, Deputy Assistant Secretary

NOTICE OF PERMIT

Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901

Attention: L. R. Hutker, P.E.
Director Facilities Department

Brevard County - AP
Building 55 - Chemical Vapor Exhaust Scrubber

Dear Mr. Hutker:

Enclosed is Permit Number A005-121935, dated 4/30/90, to operate the above referenced source, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to 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.

This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

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

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

c m c *Carl Rivers deppula for*

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803

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

Agnes B. Barkin *4/30/90*
Clerk Date

ADZ
AA/jtj

Copies furnished to:
Bill Thomas, Tallahassee

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 5-1-90 to the listed persons, by D. Jones.



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Alex Alexander, Deputy Assistant Secretary

Permittee:

Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901

Attention: L. R. Hutker, P.E.
Director Facilities Department

I. D. Number:

Permit/Certification
Number: A005-121935
Date of Issue:
Expiration Date: **April 30, 1995**
County: Brevard
Latitude/Longitude:
28°01'20"N/80°36'10"W
UTM: 17-538.7 KmE; 3100.9 KmN
Project: Building 55 Chemical
Vapor Exhaust Scrubber

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. 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:

The permittee can operate the collection area with an exhaust hood to be used as the storage and shipping point of chemical containers in Building 55. A 1,000 dscfm fume scrubber manufactured by Harrison is installed to control chemical vapors.

This source is located at Palm Bay Road in Palm Bay, Brevard County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:

I.D. Number:
Permit/Certification Number:
Date of Issue:
Expiration Date:

GENERAL CONDITIONS:

1. *The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727 or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agent, employees, servants or representatives.*
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. Nor 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 does not constitute 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 of 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, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.*
6. *The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:*
 - a. *Having access to and copying any records that must be kept under the conditions of the permit.*
 - b. *Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and*
 - c. *Sampling or monitoring any substances or parameters at any location reasonable 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 notify and provide the department with the following information:*
 - a. *a description of and cause of non-compliance; and*

PERMITTEE:
Harris Semiconductor

Attention: L. R. Hutker, P.E.
Director Facilities Department

I. D. Number:
Permit/Certification Number:
A005-121935
Date of Issue:
Expiration Date: April 30, 1995

SPECIFIC CONDITIONS:

OPERATING LIMITS

1. The maximum operating hours allowed shall be 24 hours per day, 365 days per year, for a total of 8,760 hours per year.
2. A meter to measure the pressure drop shall be installed on the scrubber system.
3. The chemical vapor exhaust scrubber must be on during the working hours and when damaged containers exist and escaping vapors are being controlled.

EMISSION LIMITS

4. The projected chemical emissions from the work area and scrubber system are 19.2 pounds per year of POCl_3 and 3.1 pounds per year of BBr_3 .
5. Objectionable odors shall not be allowed off plant property.

COMPLIANCE TESTING

6. Compliance with the VOC/solvent emissions limit for the working stations and the scrubber system shall be determined through sampling and analysis. A sample shall be taken and analyzed annually from the date of December 1, 1989 to determine the scrubber's efficiency. An annual report, summarizing the sampling results, shall be due sixty (60) days after the anniversary date of the operating permit and is to be submitted to DER's Central District Office.
7. A report shall be submitted annually to DER's Central District Office. The report shall address the entire Harris Semiconductor facility and reflect the amounts of all VOC/solvents by chemical, purchased and reclaimed or disposed of off-site.
8. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.

PERMITTEE:
Harris Semiconductor

Attention: L. R. Hutker, P.E.
Director Facilities Department

I. D. Number:
Permit/Certification Number:
AO05-121935
Date of Issue:
Expiration Date: April 30, 1995

EXPIRATION DATE

9. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

ISSUED

4/30/90

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

cmc Carlos L. de Aguilera for

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803

CERTIFIED
P 707 214 319

THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the matter of an
Application for Permit
By: Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901
Attention: L. R. Hutker, P.E.
Director, Facilities Department

Brevard County - AP
Two South Exhaust Scrubbers
Building 4 (AC05-104524)
DER File No. 121922

NOTICE OF PERMIT DENIAL

The Applicant, Harris Semiconductor, applied on June 27, 1986, to the Department of Environmental Regulation for a permit to operate a VOC/Solvent Vapor Exhaust Scrubber which is a source of volatile organic compound air pollution. This source is located on Palm Bay Road in Palm Bay, Brevard County, Florida.

The department has permitting jurisdiction under Section 403, Florida Statutes (F.S.), and Chapter 17.2.210, Florida Administrative Code (F.A.C.). The department has determined that an operating permit is required for the proposed work.

The department hereby denies the permit for the following reasons:

The source has failed to demonstrate compliance with the permitted emission limitation.

A person whose substantial interests are affected by the Department's permit denial 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 14 days of receipt 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;

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice of Permit Denial. 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 filed (received) within 14 days of receipt 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.

This Notice constitutes final agency action unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this Notice will not be effective until further Order of the Department.

Any party to this Notice of Permit Denial has the right to seek judicial review 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 with the appropriate District court of Appeal. Notice of Appeal must be filed within 30 days from the date the Notice of Permit Denial is filed with the clerk of the Department.

EXECUTED in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

cmc Carlos Rivera de Aguilar for

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803
(407) 894-7555

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.

Alma B. Beck 4/30/90
Clerk Date

ADZ
AA/jts *J.*

Copies furnished to:
Doug MacLaughlin

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this
NOTICE OF PERMIT DENIAL and all copies were mailed before the close of
business on 4-30-90, 1990 to the listed persons
by J. Jones.

CERTIFIED
P 707 214 332

THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the matter of an
Application for Permit
By: Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901
Attention: L. R. Hutker, P.E.
Director, Facilities Department

Brevard County - AP
VOC/Solvent Vapor Exhaust Scrubber
Building 63 (AC05-104512)
DER File No. 121931

NOTICE OF PERMIT DENIAL

The Applicant, Harris Semiconductor, applied on June 27, 1986, to the Department of Environmental Regulation for a permit to operate a VOC/Solvent Vapor Exhaust Scrubber which is a source of volatile organic compound air pollution. This source is located on Palm Bay Road in Palm Bay, Brevard County, Florida.

The department has permitting jurisdiction under Section 403, Florida Statutes (F.S.), and Chapter 17.2.210, Florida Administrative Code (F.A.C.). The department has determined that an operating permit is required for the proposed work.

The department hereby denies the permit for the following reasons:

The source has failed to demonstrate compliance with the permitted emission limitation.

A person whose substantial interests are affected by the Department's permit denial 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 14 days of receipt 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;

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice of Permit Denial. 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 filed (received) within 14 days of receipt 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.

This Notice constitutes final agency action unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this Notice will not be effective until further Order of the Department.

Any party to this Notice of Permit Denial has the right to seek judicial review 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 with the appropriate District court of Appeal. Notice of Appeal must be filed within 30 days from the date the Notice of Permit Denial is filed with the clerk of the Department.

EXECUTED in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

cmc *Carl Rivera Jr*

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803
(407) 894-7555

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.

Carol B. Smith *4/30/90*
Clerk Date

ADZ
AA/jts *J*

Copies furnished to:
Doug MacLaughlin

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this
NOTICE OF PERMIT DENIAL and all copies were mailed before the close of
business on *4-30-90*, 1990 to the listed persons
by *D. Jones*.

CERTIFIED
P 707 214 318

THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the matter of an
Application for Permit
By: Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901
Attention: L. R. Hutker, P.E.
Director, Facilities Department

Brevard County - AP
VOC/Solvent Vapor Exhaust Scrubber
Building 59 (AC05-104515)
DER File No. 121925

NOTICE OF PERMIT DENIAL

The Applicant, Harris Semiconductor, applied on June 27, 1986, to the Department of Environmental Regulation for a permit to operate a VOC/Solvent Vapor Exhaust Scrubber which is a source of volatile organic compound air pollution. This source is located on Palm Bay Road in Palm Bay, Brevard County, Florida.

The department has permitting jurisdiction under Section 403, Florida Statutes (F.S.), and Chapter 17.2.210, Florida Administrative Code (F.A.C.). The department has determined that an operating permit is required for the proposed work.

The department hereby denies the permit for the following reasons:

The source has failed to demonstrate compliance with the permitted emission limitation.

A person whose substantial interests are affected by the Department's permit denial 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 14 days of receipt 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;

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice of Permit Denial. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to be a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of 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 120.68, 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.

This Notice constitutes final agency action unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this Notice will not be effective until further Order of the Department.

Any party to this Notice of Permit Denial has the right to seek judicial review 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 Street, Tallahassee, Florida 32399-2400; and by filing a copy with the appropriate District court of Appeal. Notice of Appeal must be filed within 30 days from the date the Notice of Permit Denial is filed with the clerk of the Department.

EXECUTED in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

c.m.c. Carlos Rivera to J. Alexander for

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803
(407) 894-7555

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.

Debra S. Smith 4/30/90
Clerk Date

ADK

AA/jts *ff*

Copies furnished to:
Doug MacLaughlin

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this
NOTICE OF PERMIT DENIAL and all copies were mailed before the close of
business on 4-30-90, 1990 to the listed persons
by *D. Jones*.

CERTIFIED

P 707 214 316

THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the matter of an

Application for Permit

By: Harris Semiconductor

Post Office Box 883

Melbourne, Florida 32901

Attention: L. R. Hutker, P.E.

Director, Facilities Department

Brevard County - AP

Chemical Vapor Exhaust Scrubber

Building 57 (AC05-104522)

DER File No. 121936

NOTICE OF PERMIT DENIAL

The Applicant, Harris Semiconductor, applied on June 27, 1986, to the Department of Environmental Regulation for a permit to operate a VOC/Solvent Vapor Exhaust Scrubber which is a source of volatile organic compound air pollution. This source is located on Palm Bay Road in Palm Bay, Brevard County, Florida.

The department has permitting jurisdiction under Section 403, Florida Statutes (F.S.), and Chapter 17.2.210, Florida Administrative Code (F.A.C.). The department has determined that an operating permit is required for the proposed work.

The department hereby denies the permit for the following reasons:

The source has failed to demonstrate compliance with the permitted emission limitation.

A person whose substantial interests are affected by the Department's permit denial 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 14 days of receipt 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;

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice of Permit Denial. 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 filed (received) within 14 days of receipt 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.

This Notice constitutes final agency action unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this Notice will not be effective until further Order of the Department.

Any party to this Notice of Permit Denial has the right to seek judicial review 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 with the appropriate District court of Appeal. Notice of Appeal must be filed within 30 days from the date the Notice of Permit Denial is filed with the clerk of the Department.

EXECUTED in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

cmc Carlos Rivero de Aguiar for
A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803
(407) 894-7555

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.

Carole B. Beck 4/30/90
Clerk Date

ADZ

AA/jts *JT*

Copies furnished to:
Doug MacLaughlin

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this
NOTICE OF PERMIT DENIAL and all copies were mailed before the close of
business on 4-30-90, 1990 to the listed persons
by D Jones.

CERTIFIED
P 707 214 320

THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the matter of an
Application for Permit
By: Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901
Attention: L. R. Hutker, P.E.
Director, Facilities Department

Brevard County - AP
Two North Exhaust Scrubbers
Building 4 (AC05-104525)
DER File No. 121923

NOTICE OF PERMIT DENIAL

The Applicant, Harris Semiconductor, applied on June 27, 1986, to the Department of Environmental Regulation for a permit to operate a VOC/Solvent Vapor Exhaust Scrubber which is a source of volatile organic compound air pollution. This source is located on Palm Bay Road in Palm Bay, Brevard County, Florida.

The department has permitting jurisdiction under Section 403, Florida Statutes (F.S.), and Chapter 17.2.210, Florida Administrative Code (F.A.C.). The department has determined that an operating permit is required for the proposed work.

The department hereby denies the permit for the following reasons:

The source has failed to demonstrate compliance with the permitted emission limitation.

A person whose substantial interests are affected by the Department's permit denial 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 14 days of receipt 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;

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice of Permit Denial. 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 filed (received) within 14 days of receipt 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.

This Notice constitutes final agency action unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this Notice will not be effective until further Order of the Department.

Any party to this Notice of Permit Denial has the right to seek judicial review 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 with the appropriate District court of Appeal. Notice of Appeal must be filed within 30 days from the date the Notice of Permit Denial is filed with the clerk of the Department.

EXECUTED in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

c.m. Carlos Rivera de Aguilera for

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803
(407) 894-7555

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.

Agnes B. Borch 4/30/90
Clerk Date

AAZ

AA/jts *JT*

Copies furnished to:
Doug MacLaughlin

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this
NOTICE OF PERMIT DENIAL and all copies were mailed before the close of
business on 4-30-90, 1990 to the listed persons
by D. Jones.

CERTIFIED
P 707 214 321

THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the matter of an
Application for Permit
By: Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901
Attention: L. R. Hutker, P.E.
Director, Facilities Department

Brevard County - AP
VOC/Solvent Vapor Exhaust Scrubber
Building 58 Annex (AC05-104527)
DER File No. 121937

NOTICE OF PERMIT DENIAL

The Applicant, Harris Semiconductor, applied on June 27, 1986, to the Department of Environmental Regulation for a permit to operate a VOC/Solvent Vapor Exhaust Scrubber which is a source of volatile organic compound air pollution. This source is located on Palm Bay Road in Palm Bay, Brevard County, Florida.

The department has permitting jurisdiction under Section 403, Florida Statutes (F.S.), and Chapter 17.2.210, Florida Administrative Code (F.A.C.). The department has determined that an operating permit is required for the proposed work.

The department hereby denies the permit for the following reasons:

The source has failed to demonstrate compliance with the permitted emission limitation.

A person whose substantial interests are affected by the Department's permit denial 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 14 days of receipt 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;

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice of Permit Denial. 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 filed (received) within 14 days of receipt 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.

This Notice constitutes final agency action unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this Notice will not be effective until further Order of the Department.

Any party to this Notice of Permit Denial has the right to seek judicial review 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 with the appropriate District court of Appeal. Notice of Appeal must be filed within 30 days from the date the Notice of Permit Denial is filed with the clerk of the Department.

EXECUTED in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

c m e *Carlos Rivera de Aguilar* for

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803
(407) 894-7555

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.

Adrie B. Bost *4/30/90*
Clerk Date

ADZ
AA/jts *JF*

Copies furnished to:
Doug MacLaughlin

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this
NOTICE OF PERMIT DENIAL and all copies were mailed before the close of
business on *4-30-90*, 1990 to the listed persons
by *D Jones*.

CERTIFIED
P 707 214 322

THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the matter of an
Application for Permit
By: Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901
Attention: L. R. Hutker, P.E.
Director, Facilities Department

Brevard County - AP
VOC/Solvent Vapor Exhaust Scrubber
Building 63 (AC05-108260)
DER File No. 121933

NOTICE OF PERMIT DENIAL

The Applicant, Harris Semiconductor, applied on June 27, 1986, to the Department of Environmental Regulation for a permit to operate a VOC/Solvent Vapor Exhaust Scrubber which is a source of volatile organic compound air pollution. This source is located on Palm Bay Road in Palm Bay, Brevard County, Florida.

The department has permitting jurisdiction under Section 403, Florida Statutes (F.S.), and Chapter 17.2.210, Florida Administrative Code (F.A.C.). The department has determined that an operating permit is required for the proposed work.

The department hereby denies the permit for the following reasons:

The source has failed to demonstrate compliance with the permitted emission limitation.

A person whose substantial interests are affected by the Department's permit denial 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 14 days of receipt 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;

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice of Permit Denial. 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 filed (received) within 14 days of receipt 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.

This Notice constitutes final agency action unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this Notice will not be effective until further Order of the Department.

Any party to this Notice of Permit Denial has the right to seek judicial review 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 with the appropriate District court of Appeal. Notice of Appeal must be filed within 30 days from the date the Notice of Permit Denial is filed with the clerk of the Department.

EXECUTED in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

c m c Carlos Rivera de Aguilera for

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803
(407) 894-7555

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.

Adrian B. Bunker 4/30/90
Clerk Date

ADH
AA/jts *J*

Copies furnished to:
Doug MacLaughlin

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this
NOTICE OF PERMIT DENIAL and all copies were mailed before the close of
business on 4-30-90, 1990 to the listed persons
by D Jones.

CERTIFIED

P 707 214 317

THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the matter of an

Application for Permit

By: Harris Semiconductor

Post Office Box 883

Melbourne, Florida 32901

Attention: L. R. Hutker, P.E.

Director, Facilities Department

Brevard County - AP

Chemical Vapor Exhaust Scrubber

Building 58 (AC05-104521)

DER File No. 121932

NOTICE OF PERMIT DENIAL

The Applicant, Harris Semiconductor, applied on June 27, 1986, to the Department of Environmental Regulation for a permit to operate a VOC/Solvent Vapor Exhaust Scrubber which is a source of volatile organic compound air pollution. This source is located on Palm Bay Road in Palm Bay, Brevard County, Florida.

The department has permitting jurisdiction under Section 403, Florida Statutes (F.S.), and Chapter 17.2.210, Florida Administrative Code (F.A.C.). The department has determined that an operating permit is required for the proposed work.

The department hereby denies the permit for the following reasons:

The source has failed to demonstrate compliance with the permitted emission limitation.

A person whose substantial interests are affected by the Department's permit denial 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 14 days of receipt 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;

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice of Permit Denial. 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 filed (received) within 14 days of receipt 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.

This Notice constitutes final agency action unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this Notice will not be effective until further Order of the Department.

Any party to this Notice of Permit Denial has the right to seek judicial review 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 with the appropriate District court of Appeal. Notice of Appeal must be filed within 30 days from the date the Notice of Permit Denial is filed with the clerk of the Department.

EXECUTED in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

cmc Carlos Rivera de Aguiar

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803
(407) 894-7555

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.

Carol B. ... 4/30/90
Clerk Date

ADZ

AA/jts *[initials]*

Copies furnished to:
Doug MacLaughlin

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this
NOTICE OF PERMIT DENIAL and all copies were mailed before the close of
business on 4-30-90, 1990 to the listed persons
by D. Jones.

Check Sheet

Company Name: HARRIS SEMI CONDUCTOR

Permit Number: General file

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
 - Other
- 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

Folder Name: Harris Semiconductor

Folder Number:

General

The permit(s) referenced below are related to this permit. They may or may not be imaged in this system.

AC 05 - 104512	AC 05 - 165757	AO 05 - 109850
AC 05 - 104512	AC 05 - 168460	AO 05 - 109852
AC 05 - 104515	AC 05 - 180707	AO 05 - 115803
AC 05 - 104521	AC 05 - 189176	AO 05 - 121928
AC 05 - 104522	AC 05 - 189177	AO 05 - 121934
AC 05 - 104523	AC 05 - 189178	AO 05 - 121935
AC 05 - 104524	AC 05 - 190042	AO 05 - 165757
AC 05 - 104525	AC 05 - 190668	AO 05 - 168460
AC 05 - 104527	AC 05 - 190797	AO 05 - 188383
AC 05 - 108260	AC 05 - 190798	AO 05 - 197620
AC 05 - 117084	AC 05 - 190799	AO 05 - 198735
AC 05 - 147321	AC 05 - 190800	AO 05 - 201158
AC 05 - 150794	AC 05 - 202415	AO 05 - 202883
AC 05 - 157786	AC 05 - 203985	AO 05 - 212564
AC 05 - 157787	AC 05 - 205848	AO 05 - 212565
AC 05 - 158237	AC 05 - 205849	AO 05 - 212566
AC 05 - 159484		AO 05 - 212567
AC 05 - 161706		AO 05 - 212568
AC 05 - 164544		AO 05 - 212569



May 29, 1992

R-9250 0090-92

RECEIVED

JUN 8 1992

6-22-92

for

Division of Air Resources Management

Mr. John Turner
Engineer
State of Florida
Department of Environmental Regulation
3319 Maguire Blvd., Suite 232
Orlando, FL. 32803

Dear Mr. Turner:

Enclosed is the 1991 calendar year annual operating report for the vacuum degasified system, Florida operating permit number A005-688383. This operating report was inadvertently omitted from the March 26, 1992 submittal.

If you have any questions regarding this matter please contact me at (407)729-4076.

Sincerely,

John W. Widell

John W. Widell
Safety Environmental Engineer
Environmental Services
Harris Semiconductor

- cc: D. Bock
- R. Sands
- B. Mitchell, DER Tal.
- C. Collins, DER Orl.
- C. Fancy, DER Tal.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2800 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TECHINKE
SECRETAR

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1991 prior to March 1st of the following year.

I GENERAL INFORMATION

- 1. Source Name: HARRIS SEMICONDUCTOR
- 2. Permit Number: A005-188383
- 3. Source Address: Palm Bay Road
Palm Bay, Florida 32902-0883
- 4. Description of Source: Industrial Grade Water System with Vacuum Degasifier and Flare System

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	N/A Input Process Weight	tons/yr
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

IV PRODUCT OUTPUT (Specify applicable units) N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates 17.60 Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) _____

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 15

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

John R. Steiner, Director

TYPED NAME AND TITLE
Environmental, Safety, Facilities

DATE



RECEIVED
JUL 13 1992
Division of Air
Resources Management
0003-955

July 9, 1992

Mr. Pius Sanabani
Air Permitting Engineer
Air Resource Management
Florida Department of Environmental Regulation
3319 Maguire Boulevard, Suite 232
Orlando, FL. 32803-3767

SUBJECT: Source Test Report, Permit Number A005-188383
Vacuum Degasifier with Flare System-Harris Semiconductor.

Dear Mr. Sanabani:

Enclosed are two copies of the test report for the vacuum degasifier system as required by specific condition 7-10 of the referenced operating permit. The testing results indicate that the system operates within the permissible range and operating standards.

If you have any questions or require additional information, please contact me at (407) 729-4076.

Sincerely,

John W. Widell
Environmental, Health & Safety
Lead Engineer

cc: C. Fancy, Tall. DER
B. Mitchell, Tall. DER
A. Zahm, P.E., Orlando DER
G. Kuberski, Orlando DER
D. Bock HSS



RECEIVED
AUG 18 1992
Division of Air
Resource Management

August 13, 1992

R-9250 013

Mr. Pius Sanabani
Air Permitting Engineer
Air Resource Management
Florida Department of Environmental Regulation
3319 Maguire Boulevard, Suite 232
Orlando, FL. 32803-3767

SUBJECT: 1992 Source Test Report of VOC emissions for permit numbers: AO 05-202883, AO 05-201158, AO 05-212564, AO 05-212566, AO 05-212567, AO 05-212565, AO 05-212568, AO 05-197620, AO 05-212569, AO 05-198735.
HARRIS SEMICONDUCTOR

Dear Mr. Sanabani:

Enclosed, please find two copies of the test report of the annual monitoring program of all source/buildings at Harris Semiconductor Sector, Melbourne, FL. The tests were conducted by Air Consulting & Engineering, Inc. for VOC/solvent emissions as required by specific condition 6 of the above mentioned permits.

Should you have any questions or require any additional information, please contact me at (407) 729-4076.

Sincerely,

John W. Widell
Environmental Health & Safety
Lead Engineer

cc: C. Fancy, Tall. DER
B. Mitchell, Tall. DER
A. Zahn P.E., Orlando DER
G. Kuberski, Orlando DER



March 25, 1993

0077-93

Mr. John Turner
Engineer
State of Florida
Department of Environmental Regulation
3319 Maguire Blvd. Suite 232
Orlando, Florida 32803

Subject: Annual Operating Report for Permit numbers, AOC5-202888,
AO05-201158, AO05-212564, AO05-212566, AO05-212567,
AO05-212565, AO05-212568, AO05-197620, AO05-212569,
AO05-198735, AO05-188383.

Dear Mr. Turner:

According to the requirements of the Florida Administration Code 17-4, please find attached the Annual Operating Reports for the above mentioned building permits for Harris Semiconductor, Palm Bay Facility. Form 17-210.900(4) was completed for calendar year 1992.

If you have any questions or require any additional information, please contact me at (407) 729-4076.

Sincerely,

John W. Widell

John W. Widell
Environmental Safety Lead Engineer
Harris Semiconductor

- cc D. Bock, HSS
- R. Sands, Harris Corp.
- B. Mitchell, DER Tal.
- C. Collins, DER Orl.
- C. Fancy, DER Tal.

RECEIVED

MAR 30 1993

Division of Air
Resources Management



RECEIVED

March 26, 1992

APR 2 1992

Mr. John Turner
Engineer
State of Florida
Department of Environmental Regulation
3319 Maguire Blvd, Suite 232
Orlando, FL. 32803

Division of Air
Resources Management

Subject: Annual Operating Report Permit numbers, AC 05-190668,
AC 05-190798, AC 05-203985, AC 05-202415, AC 05-205848,
AC 05-189176, AC 05-205849, AC 05-189177, AC 05-190797,
AC 05-190042.

Dear Mr. Turner:

According to the requirements of the Florida Administration Code 17-4, please find attached the Annual Operating Reports for the above mentioned building permits for Harris Semiconductor Palm Bay Facility. Form 17-1.202(6) along with attachments were completed for calendar year 1991.

If you have any questions or require any addition information, please contact me at (407) 729-4076.

Sincerely,

John W. Widell
Safety Environmental Engineer
Environmental Services
Harris Semiconductor

cc: D. Bock
R. Sands
B. Mitchell, DER Tal.
C. Collins, DER Orl.
C. Fancy, DER Tal.



PHILLIP W. FARMER
EXECUTIVE VICE PRESIDENT

15 October 1991

TO WHOM IT MAY CONCERN:

I, Phillip W. Farmer, Executive Vice President of HARRIS CORPORATION, do hereby authorize John Steiner, Sector Director of Environmental, Safety and Facility Affairs of HARRIS SEMICONDUCTOR, to execute applications for Pollution Source permits to the Department of Environmental Regulation of the State of Florida, and the United States Environmental Protection Agency. Mr. Steiner is further authorized to sign monitoring reports and execute other correspondence related to these permits for the Harris Semiconductor, Melbourne, Florida site and delegate these same responsibilities to HARRIS SEMICONDUCTOR's management at all U.S. sites.

A handwritten signature in cursive script, appearing to read 'P. W. Farmer', written in dark ink.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
1600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1991 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-190668
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 04

II ACTUAL OPERATING HOURS: See Attachment A hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr) N/A

Raw Material

Input Process Weight

Raw Material	Input Process Weight
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

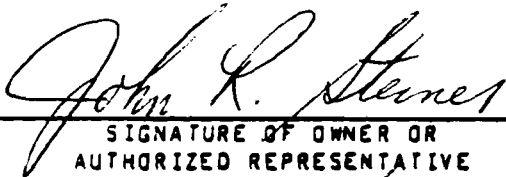
_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon _____ Other (Specify type and units) See Attachment B

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

26 March 1992

DATE

J. Steiner, Director
TYPED NAME AND TITLE
Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 SLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19 91 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-190798
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 51

II ACTUAL OPERATING HOURS: See Attachment A
_____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr

IV PRODUCT OUTPUT (Specify applicable units) _____

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

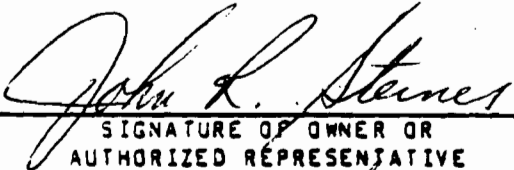
_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachment B

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

26 March 1992

DATE

J. Steiner, Director
TYPED NAME AND TITLE
Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1991 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-203985
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 54

II ACTUAL OPERATING HOURS: See Attachment A _____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon _____ Other (Specify type and units) See Attachment B

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

John L. Steiner

SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

26 March 1992

DATE

J. Steiner, Director

TYPED NAME AND TITLE

Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2800 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1991 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-202415
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 55

II ACTUAL OPERATING HOURS: See Attachment A _____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr) N/A

Raw Material	Input Process Weight
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr

IV PRODUCT OUTPUT (Specify applicable units) N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon _____ Other (Specify type and units) See Attachment B

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

John R. Steiner

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

26 March 1992

DATE

J. Steiner, Director

TYPED NAME AND TITLE
Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1991
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-205848
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 57

II ACTUAL OPERATING HOURS: See Attachment A _____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr) N/A

Raw Material

Input Process Weight

Raw Material	Input Process Weight
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon _____ Other (Specify type and units) See Attachment B

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

John R. Steiner

SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

26 March 1992

DATE

J. Steiner, Director
TYPED NAME AND TITLE

Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1991
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-189176
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 58

II ACTUAL OPERATING HOURS: See Attachment A
_____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10 ⁶ cubic feet Natural Gas	_____ 10 ³ Kerosene
_____ 10 ³ gallons _____ Oil, _____ %S	_____ tons Coal
_____ 10 ³ gallons Propane	_____ tons Carbonaceous
_____ 10 ⁶ Black Liquor Solids	_____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates	_____ Sulfur Dioxide	_____ Total Reduced Sulfur
_____ Nitrogen Oxide	_____ Carbon Monoxide	_____ Fluoride
_____ Hydrocarbon	Other (Specify type and units) <u>See Attachment B</u>	

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
 EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

John R. Steiner

SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

26 March 1992

DATE

J. Steiner, Director

TYPED NAME AND TITLE

Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1991 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-205849
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 59

II ACTUAL OPERATING HOURS: See Attachment A hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachment B

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

John R. Steiner

SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

26 March 1992

DATE

J. Steiner, Director

TYPED NAME AND TITLE

Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
 2800 BLAIR STONE ROAD
 TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
 GOVERNOR
 VICTORIA J. TSCHINKEL
 SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1991 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-189177
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 60

II ACTUAL OPERATING HOURS: See Attachment A _____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr) N/A

Raw Material	Input Process Weight
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr

IV PRODUCT OUTPUT (Specify applicable units) N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachment B

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

John R. Steiner

SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

26 March 1992

DATE

J. Steiner, Director

TYPED NAME AND TITLE

Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
 2600 BLAIR STONE ROAD
 TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
 GOVERNOR
 VICTORIA J. TSCHINKEL
 SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1991 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-190797
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 62

II ACTUAL OPERATING HOURS: See Attachment A hrs/day days/wk wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
	N/A
	tons/yr
	tons/yr
	tons/yr
	tons/yr
	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10 ⁶ cubic feet Natural Gas	_____ 10 ³ Kerosene
_____ 10 ³ gallons _____ Oil, _____ %S	_____ tons Coal
_____ 10 ³ gallons Propane	_____ tons Carbonaceous
_____ 10 ⁶ Black Liquor Solids	_____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates	_____ Sulfur Dioxide	_____ Total Reduced Sulfur
_____ Nitrogen Oxide	_____ Carbon Monoxide	_____ Fluoride
_____ Hydrocarbon	Other (Specify type and units) <u>See Attachment B</u>	

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

John R. Steiner

SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

26 March 1992

DATE

J. Steiner, Director
TYPED NAME AND TITLE
Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1991 prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-190042
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 63

II ACTUAL OPERATING HOURS: See Attachment A hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachment B

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

26 March 1992

DATE

J. Steiner, Director

TYPED NAME AND TITLE

Environmental and Facilities

ATTACHMENT A:

**1991 ACTUAL OPERATING
HOURS**

ACTUAL OPERATING HOURS FOR CALENDAR YEAR 1991

MONTH BUILDING	JAN/FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL HRS
4	1008	504	504	528	504	504	528	480	552	384	360	5856
51	1020	600	600	480	636	432	480	576	480	480	368	6152
54	1008	504	528	528	504	504	528	504	552	480	408	6048
55	120	60	60	60	60	60	60	60	60	60	60	720
57	1002	600	486	492	624	444	480	588	480	492	504	6192
58	1002	600	486	492	624	444	480	588	480	492	504	6192
59	1080	654	672	480	678	492	480	576	480	480	378	6450
60	1016	487	528	528	480	504	528	480	552	480	360	5943
62	714	336	360	368	336	336	352	320	368	312	248	4050
63	930	636	498	516	648	450	492	588	480	480	486	6204

ATTACHMENT B:

**1991 VOC/SOLVENT
EMISSIONS MONITORING DATA**

TABLE 1. SUMMARY OF 1991 ANNUAL MONITORING RESULTS
 EMISSIONS EXPRESSED AS PROPANE AND BASED ON AN ENTIRE
 WORKSHIFT PERIOD DURING REGULAR OPERATING HOURS

BLDG NUMBER	SCRUBBER NUMBER	PPM AS PROPANE	VOLUM. FLOW	LBS/HR AS C3H8	TOTAL MONITORED BLDG EMISS LBS/HR	ACTUAL HRS/YR OF BLDG OPERATION	1991 BLDG EMISS TONS/YR
04	FO4S01	0.420	8570	0.025	1.161	5856	3.400
	FO4S02	0.800	10683	0.059			
	FO4S03	2.820	6033	0.117			
	FO4S08	28.200	4972	0.961			
51	F51S02	0.240	8560	0.014	5.331	6152	16.398
	F51S03	19.090	19700	2.578			
	F51S04	0.470	18739	0.060			
	F51S05	19.070	20485	2.678			
54	F54S01	3.100	44688	0.950	4.166	6048	12.597
	F54S02	11.800	14197	1.149			
	F54S03	11.200	26922	2.067			
55	F55S01	1.300	7217	0.064	0.064	720	0.023
57	F57S01	1.100	13349	0.101	0.101	6192	0.313
58	F58S01	5.900	12648	0.512	0.512	6192	1.585
59	F59S02	3.130	9421	0.202	0.398	6450	1.283
	F59EOX	19.410	1470	0.196			
60	F60S01	0.090	25757	0.016	0.016	5943	0.048
62	F62S02	0.000	10957	0.000	0.000	4050	0.000
63	F63S02	18.100	6419	0.797	1.304	6204	4.045
	F63S03	8.400	8809	0.507			
				-----	-----	-----	
				13.052	13.052		39.691



RECEIVED
1991

Division of Air
Resources Management

October 8, 1991

Mr. Garry Kuberski
Section Supervisor
Compliance/Enforcement
Air Resources Management
Florida Department of Environmental Regulation
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803

SUBJECT: HARRIS SEMICONDUCTOR
Notification of Monitoring
Scrubber Systems.

Dear Mr. Kuberski:

According to the specific conditions of the Amendments to Construction Permits Nos. AC 05-190800 (Bldg. 54); AC 05-190799 (Bldg. 55); AC 05-189176 (Bldg. 58); AC 05-190797 (Bldg. 62), Harris Semiconductor, Melbourne, the purpose of this letter is to notify the Central District Office that the sampling of the Building scrubber systems has been tentatively scheduled for the week of October 21 through the 25, 1991 or October 28 through November 1, 1991.

The scrubber systems sampling will be established utilizing EPA Method 25A as required. The monitoring work will be performed by Air Consulting & Engineering, Inc. of Gainesville.

Should you have any questions or require any additional information please contact our office at (407) 729-5301.

Sincerely,

A handwritten signature in cursive script that reads 'Constantine Triantafyllidis'.

Constantine Triantafyllidis, R.E.P.
Environmental Services

cc: B. Mitchell, Tallahassee
D. Bock



RECEIVED

APR 25 1991

DER-BAQM

April 22, 1991

Mr. Pius Sanabani
Engineer
Florida Department of Environmental Regulation
3319 Maguire Boulevard, Suite 232
Orlando, Fl 32803

SUBJECT: Testing of the Flare System
HARRIS SEMICONDUCTOR

Dear Mr. Sanabani:

In accordance with Specific Condition number 7 listed in operating permit number A005-188383, the purpose of this letter is to notify the Central District office that compliance testing of the permitted flare system servicing Semiconductor's vacuum degasifier unit has been scheduled for May 21, 1991.

Monitoring work will be performed by Air Consulting & Engineering, Inc. of Gainesville and Technical Services, Inc. of Jacksonville utilizing EPA Method 15.

If you should have any questions, please call me at (407) 729-5301.

Sincerely,

Constantine Triantafyllidis

Constantine Triantafyllidis, R.E.P.
Environmental Services

cc: B. Mitchell
C. Fancy
K. Smith

RECEIVED

April 15, 1991

APR 22 1991

Mr. Pius Sanabani
Air Permitting Engineer
Air Resource Management
Florida Department of Environmental Regulation
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803-3767

DER-BAQIM

SUBJECT: 1991 Source Test Report on potential Acid and VOC emissions
Permit Numbers: AC 05-189176, AC 05-189177, AC 05-189178, AC 05-190042,
AC 05-190668, AC 05-190797, AC 05-190798, AC 05-190799, AC 05-190800
AC 05-150794
HARRIS SEMICONDUCTOR

Dear Mr. Sanabani:

This letter is submitted on behalf of Harris Semiconductor to notify the Central Florida Office of a typographical error in the 1991 source emissions monitoring report compiled by Air Consulting and Engineering and submitted with a cover letter dated March 14, 1991.

Table 2 on page 4 of the report should have the source number F04S01 instead of F04S06 as shown on the attached corrected page. Also, the information on the schematics, field data sheets and flow data by source on Appendix B should be addressed to source F04S01 instead of F04S06.

Enclosed, please find two corrected copies of page 4 and the appropriate pages of Appendix B for source F04S01 of the test report. In addition, corrected tables indicating the annual VOC emissions from every source/Building based on stack test sampling results and actual operating hours are found attached with this submittal.

Should you have any questions or require any additional information, please contact me at (407) 729-5301.

Sincerely,

Constantine Triantafyllidis

Constantine Triantafyllidis, R.E.P.
Environmental Engineer

cc: C. Fancy
B. Mitchell
A. Zahm, P.E.
K. Smith
S. Neck

Table 2 VOC Emission Summary
Harris Corporation - Semiconductor Division
Palm Bay, Florida
January, 1991

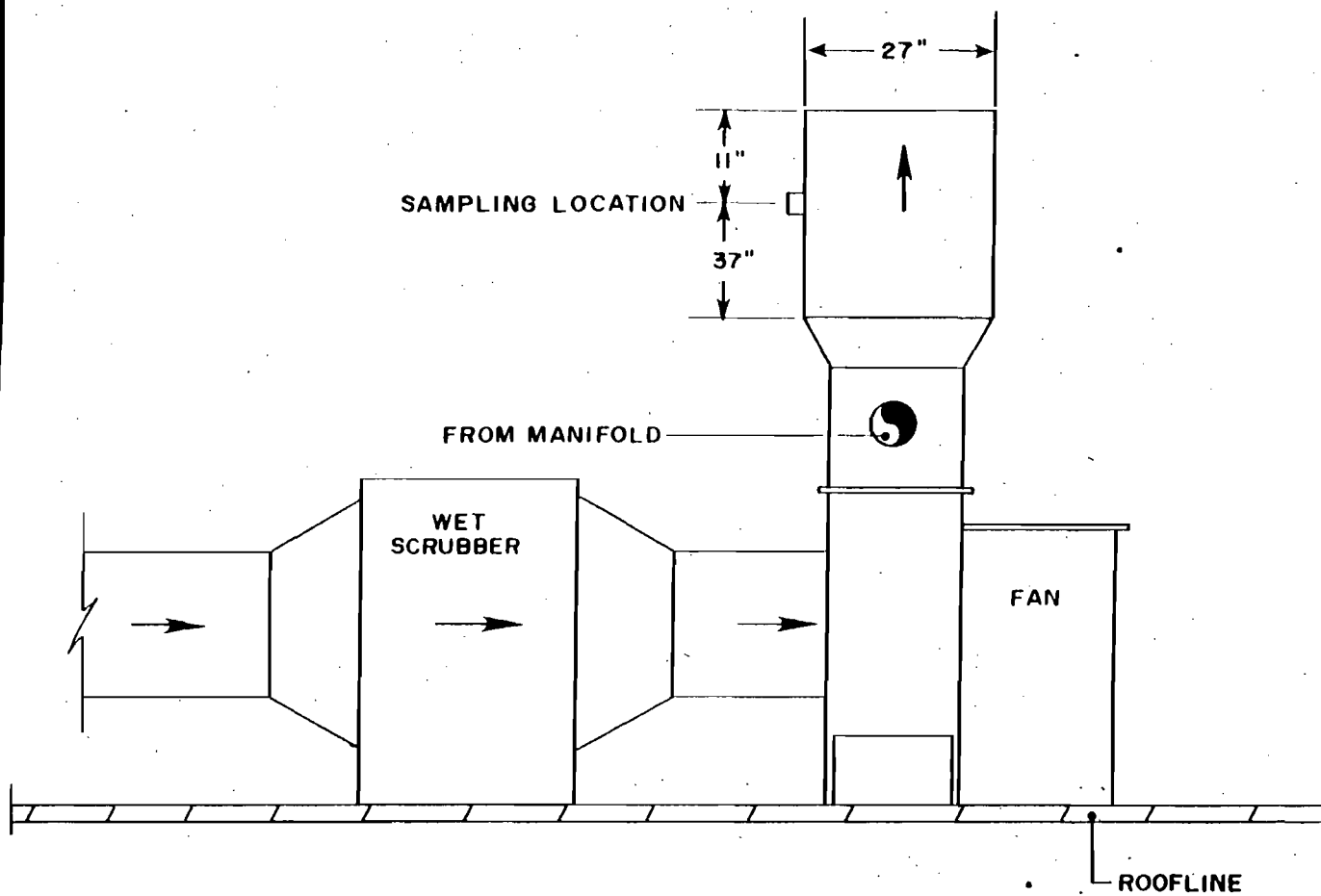
Date	Source	Volumetric Flow Rate		VOC Emissions as C3H8	
		SCFMD		ppm	lb/Hr
1/30/91	F04S02	10683		0.80	0.059
1/30/91	F04S03	6033		2.82	0.117
1/28/91	F04S01	8570		0.42	0.025
1/30/91	F04S08	4972		28.2	0.961
1/23/91	F51S02	8560		0.24	0.014
1/23/91	F51S03	19700		19.09	2.578
1/23/91	F51S04-I	15487		0.18	0.019
1/23/91	F51S04-I-Duct	1772		1.93	0.023
1/23/91	F51S04-0	18739		0.47	0.060
1/22/91	F51S05	20485		19.07	2.678
1/22/91	F54S01-I	26471		3.30	0.599
1/22/91	F54S01-0	35150		2.57	0.619
1/22/91	F54S03	28827		16.50	3.261
1/24/91	F54S04	21440		12.36	1.817
1/30/91	F57S01	14447		5.29	0.524
1/30/91	F58S01	7692		7.55	0.398
1/30/91	F58S02	2178		2.95	0.044
1/24/91	F58E01	4572		7.07	0.222
1/21/91	F59S02	9421		3.13	0.202
1/21/91	F59E0X	1470		19.41	0.196
1/21/91	F60S01	25757		0.09	0.016
1/24/91	F62S02	10957		0.00	0.000
1/24/91	F63S02	6419		18.10	0.797
1/22/91	F63S03-I	5752		12.50	0.493
1/22/91	F63S03-0	8809		8.4	0.507

All VOC emissions were corrected for ambient air background and drift

$$\text{lb/Hr } C_3H_8 = \text{ppm} (2.595 \times 10^{-9}) \text{ MW (SCFMD)} 60$$

$$\text{MWC}_{3H_8} = 44.033$$

F04S01
ACID, VOC



TRAVERSE POINT NUMBER	INCHES INSIDE STACK WALL
1	2.38
2	7.13
3	11.88
4	16.63

NOTE: NOT TO SCALE

FIGURE
 SAMPLING POINT LOCATION SCHEMATIC
 HARRIS CORPORATION - FO4SO1
 GOVERNMENT SECTOR

AIR CONSULTING
 and
 ENGINEERING

MOISTURE AND FLOW CALCULATIONS

PLANT HARRIS SEMICONDUCTOR
 STACK F04S01
 DATE 1/28/91
 RUN NO. 1

BAROMETRIC PRESS. 30.22 IN.HG
 STACK PRESS. 30.22 IN.HG
 STACK AREA 3.563 SQ.FT
 AVG. STACK TEMP. 74 F
 AVG. METER TEMP. 95.00 F
 Y 0.999
 AVG. METER ORIFICE 1.930 IN. H2O
 METER VOL. 401.844 CUB.FT
 MOISTURE PLUS SILICA GEL 111.400 ML
 STACK SQRT VEL. HEAD 0.722 IN. H2O
 CP 0.840

ORSAT: PERCENT CO2 0.0
 PERCENT O2 20.9
 PERCENT N2 79.1

VWSTD. 5.251 SCF
 VMSTD. 387.552 SCF
 MOISTURE FRACTION 0.013
 FRACTION OF DRY AIR 0.987
 MWGT. OF DRY AIR 28.836
 MWGT. OF WET STACK GAS 28.691

AVG. VEL 40.68 FPS
 GAS FLOWRATE 8697.56 ACFM
 STD. GAS FLOWRATE 8569.94 SCFMD

VELOCITY TRAVERSE

PLANT HARRIS SEMICONDUCTOR
 SOURCE F04SO1
 DATE 1/30/91
 BAROMETRIC PRESS. 30.220 IN.HG
 STACK PRESS. 30.220 IN.HG
 OPERATORS HODGE/WURTS
 RUN 1

TRAVERSE POINT NUMBER	VEL. HEAD IN.H2O	SQRT VEL. HEAD	STACK TEMP. F
1-1	0.58	0.762	81
1-2	0.41	0.640	78
1-3	0.49	0.700	78
1-4	0.48	0.693	78
2-1	0.60	0.775	76
2-2	0.55	0.742	76
2-3	0.52	0.721	76
2-4	0.51	0.714	76
3-1	0.55	0.742	76
3-2	0.50	0.707	76
3-3	0.54	0.735	76
3-4	0.56	0.748	76
4-1	0.43	0.656	75
4-2	0.55	0.742	76
4-3	0.56	0.748	76
4-4	0.52	0.721	76
<hr/>		0.722	77

BEST AVAILABLE COPY

HARRIS SEMICONDUCTOR-FO4SO1
 PALM BAY, FLORIDA
 EPA 25A VOC EMISSIONS
 JANUARY 30, 1991

AIR CONSULTING AND ENGINEERING, INC.

ppm C3H8

PAGE 1 OF 1

TIME	MAXIMUM	MINIMUM	AVERAGE
0700-0715	1.00	1.00	1.00
0715-0730	1.00	1.00	1.00
0730-0745	1.00	1.00	1.00
0745-0800	1.00	1.00	1.00
0800-0815	1.00	1.00	1.00
0815-0830	1.00	1.00	1.00
0830-0845	1.00	1.00	1.00
0845-0900	1.00	1.00	1.00
0900-0915	1.00	1.00	1.00
0915-0930	1.00	1.00	1.00
0930-0945	1.00	1.00	1.00
0945-1000	1.00	1.00	1.00
1000-1015	1.00	1.00	1.00
1015-1030	1.00	1.00	1.00
1030-1045	1.00	1.00	1.00
1045-1100	2.00	1.80	1.80
1100-1115	2.00	2.00	2.00

TIME	MAXIMUM	MINIMUM	AVERAGE
1115-1130	2.00	1.50	1.50
1130-1145	1.50	1.50	1.50
1145-1200	1.50	1.50	1.50
1200-1215	1.50	1.50	1.50
1215-1230	1.50	1.50	1.50
1230-1245	1.50	1.50	1.50
1245-1300	1.50	1.50	1.50
1300-1315	1.50	1.50	1.50
1315-1330	1.50	1.50	1.50
1330-1345	2.00	1.50	2.00
1345-1400	3.00	0.00	2.00
1400-1415	2.00	2.00	2.00
1415-1430	2.00	2.00	2.00
1430-1445	2.00	2.00	2.00
1445-1500	2.00	1.50	2.00
1500-1515	2.00	2.00	2.00
1515-1530	2.00	2.00	2.00

AVERAGE ppm: 1.42

AMBIENT CORRECTED AVERAGE ppm: .42

F0.50.

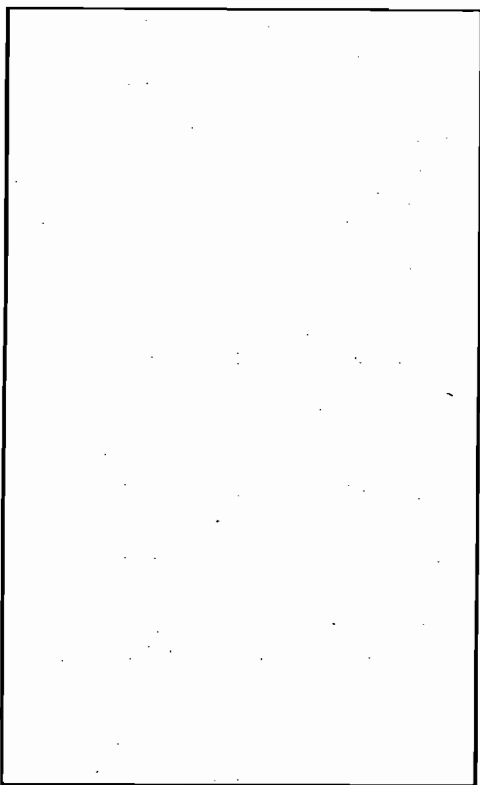
TEST ID F04501
PAGE 1 OF 2

STACK SAMPLING FIELD DATA SHEET



2106 N. W. 67th PLACE Sultes 9B10
GAINESVILLE, FLORIDA 32606

PLANT HARRIS SEMICONDUCTOR
SOURCE F04501 F04501
PLANT LOCATION PALM BAY F
TYPE OF SAMPLING TRAIN EPA B
TYPE OF SAMPLES ACID
DATE 7-28-91 RUN NO. _____
TIME START 700 TIME END _____
SAMPLE TIME 15 1 1 (min/pt) = 510 Total min
ASSUMED MOISTURE 3 % FDA _____
NOMOGRAPH C_p 3.39 PITOT CORR. _____
P_b _____ "Hg P_s _____ "Hg
WEATHER P.C. TEMP _____ °F
METER BOX NO. 4 H 1.796 γ .999
NOZZLE CAL. .211 .240 .241 = .241
STACK DIMENSIONS _____
STACK AREA _____ ft² EFFECTIVE _____ ft²
STACK HEIGHT _____ ft.
STACK DIAMETER: UPSTRM. _____ DNSTRM. _____
PORT SIZE _____ in. NIPPLE LENGTH _____ in.
U CORD LENGTH _____
REMARKS: _____



MAT'L PROCESSING RATE _____
GAS METER READINGS: FINAL 1084.187 ft³
INITIAL 682.343 ft³
NET 401.844 ft³
FILTER NO. _____ IMP. VOL. GAIN 90 ml.
SIL GEL NO. 49 WT. GAIN 51.4 ml.
TOTAL CONDENSATE 111.4 ml.

ORSAT

	1	2	3	4	AVG.
% CO ₂					
% O ₂					
% CO					
% N ₂					

F₀ = _____ F₀ RANGE = _____

ORSAT ANALYZER _____

LEAK CHECKS

PRE 0.000 cfm 12 "Hg POST 0.000 cfm 14 "Hg
METER BOX/PUMP OK GAS SAMPLE SYST. _____

ORSAT BAG _____
PITOT TUBE NO. _____ PRE-TEST _____
POST-TEST(+) 3.5 / 15 H₂O/Sec
POST-TEST(-) -1.0 / 15 H₂O/Sec
PYROMETER NO. ATK-4
BOX OPERATOR PROWS PROBE HOLDER _____

PORT AND TRAVERSE POINT NUMBER	DISTANCE FROM INSIDE STACK WALL / COMMENTS	CLOCK TIME	GAS METER READING (FT. ³)	STACK VELOCITY HEAD	METER ORIFICE PRESS. DIFF. ("H ₂ O)		STACK GAS TEMP (°F)	SAMPLE BOX TEMP (°F)	LAST IMPINGER TEMP F	DRY GAS METER TEMP (°F)	VACUUM ON SAMPLE TRAIN ("Hg)
					CALC.	ACTUAL					
		<u>700</u>	<u>682.343</u>	<u>1.93</u>	<u>1.93</u>	<u>1.93</u>	<u>70</u>	<u>N/A</u>	<u>49</u>	<u>70</u>	<u>4</u>
		<u>715</u>	<u>694.0</u>	<u>.57</u>	<u>1.93</u>	<u>1.93</u>	<u>70</u>		<u>49</u>	<u>78</u>	<u>4</u>
		<u>730</u>	<u>705.7</u>	<u>.57</u>	<u>1.93</u>	<u>1.93</u>	<u>70</u>		<u>49</u>	<u>80</u>	<u>4</u>
		<u>745</u>	<u>717.4</u>	<u>.57</u>	<u>1.93</u>	<u>1.93</u>	<u>70</u>		<u>50</u>	<u>81</u>	<u>4</u>
		<u>800</u>	<u>729.0</u>	<u>.57</u>	<u>1.93</u>	<u>1.93</u>	<u>71</u>		<u>50</u>	<u>82</u>	<u>4</u>
		<u>815</u>	<u>740.6</u>	<u>.57</u>	<u>1.93</u>	<u>1.93</u>	<u>71</u>		<u>51</u>	<u>83</u>	<u>4</u>



11-28-91

PORT AND TRAVERSE POINT NUMBER	DISTANCE FROM INSIDE STACK WALL /COMMENTS	CLOCK TIME	GAS METER READING (ft.3)	STACK VELOCITY HEAD	METER ORIFICE PRESS. DIFF. ("H ₂ O)		STACK GAS TEMP (°F)	SAMPLE BOX TEMP (°F)	LAST IMPINGER TEMP (°F)	DRY GAS METER TEMP (°F)	VACUUM ON SAMPLE TRAIN ("Hg)
					CALC.	ACTUAL					
		845	764.1	.57	1.93	1.93	71	N/A	51	86	4
		900	775.7	.57	1.93	1.93	71		51	88	4
		915	787.3	.57	1.93	1.93	72		52	89	4
		930	799.0	.57	1.93	1.93	72		53	90	4
		945	810.7	.57	1.93	1.93	72		54	91	4
		1000	823.6	.57	1.93	1.93	72		54	91	4
		1015	834.1	.57	1.93	1.93	73		54	91	4
		1030	845.8	.57	1.93	1.93	73		55	92	4
		1045	869.3	.57	1.93	1.93	75		54	94	4
		1100	881.2	.57	1.93	1.93	74		55	95	4
		1115	892.8	.57	1.93	1.95	74		54	95	4
		1130	904.4	.57	1.93	1.93	74		54	95	4
		1145	915.9	.57	1.93	1.95	74		54	95	4
		1200	917.7	.57	1.93	1.93	74		54	95	4
		1215	929.1	.57	1.93	1.93	74		54	95	4
		1230	941.2	.57	1.93	1.93	74		54	95	4
		1245	953.3	.57	1.93	1.93	74		53	96	4
		1300	964.9	.57	1.93	1.93	74		53	96	4
		1315	975.1	.57	1.93	1.93	74		53	97	4
		1330	988.7	.57	1.93	1.93	74		53	97	4
		1345	1000.7	.57	1.93	1.93	74		52	97	4
		1400	1013.4	.57	1.93	1.93	74		52	97	4
		1415	1024.7	.57	1.93	1.93	74		52	96	4
		1430	1037.2	.57	1.93	1.93	74		51	95	4
		1445	1048.5	.57	1.93	1.93	73		51	94	4
		1500	1059.3	.57	1.93	1.93	72		49	92	4
		1515	1070.1	.57	1.93	1.93	72		49	92	4

TABLE 1. SUMMARY OF 1991 ANNUAL MONITORING RESULTS ON VOC/SOLVENT EMISSIONS EXPRESSED AS PROPANE AND BASED ON AN ENTIRE WORKSHIFT PERIOD DURING REGULAR OPERATING HOURS

BLDG NUMBER	SCRUBBER NUMBER	PPM AS PROPANE	VOLUM. FLOW	LBS/HR AS C3H8	TOTAL MONITORED BLDG EMISS LBS/HR	ACTUAL HRS/YR OF BLDG OPERATION	1991 BLDG EMISS TONS/YR
04	FO4S01	0.420	8570	0.025	1.161	6744	3.916
	FO4S02	0.800	10683	0.059			
	FO4S03	2.820	6033	0.117			
	FO4S08	28.200	4972	0.961			
51	F51S02	0.240	8560	0.014	5.331	6540	17.433
	F51S03	19.090	19700	2.578			
	F51S04	0.470	18739	0.060			
	F51S05	19.070	20485	2.678			
54	F54S01	2.570	35150	0.619	5.697	6468	18.425
	F54S03	16.500	28827	3.261			
	F54S04	12.360	21440	1.817			
57	F57S01	5.290	14447	0.524	0.524	6936	1.817
58	F58S01	7.550	7692	0.398	0.664	6936	2.302
	F58S02	2.950	2178	0.044			
	F58EO1	7.070	4572	0.222			
59	F59S02	3.130	9421	0.202	0.398	7242	1.440
	F59EOX	19.410	1470	0.196			
60	F60S01	0.090	25757	0.016	0.013	6216	0.040
62	F62S02	0.000	10957	0.000	0.000	4580	0.000
63	F63S02	18.100	6419	0.797	1.304	6672	4.350
	F63S03	8.400	8809	0.507			
				-----	-----	-----	
				15.095	15.095		49.722

TABLE 2. SUMMARY OF 1991 ANNUAL MONITORING RESULTS
ON VOC/SOLVENT EMISSIONS PER BUILDING
AT HARRIS SEMICONDUCTOR

BLDG NUMBER	1991 BLDG EMISSIONS TONS/YR
04	3.916
51	17.433
54	18.425
57	1.817
58	2.302
59	1.440
60	0.040
62	0.000
63	4.350

	49.722

March 27, 1991

Mr. John Turner
Engineer
State of Florida
Department of Environmental Regulation
3319 Maguire Blvd, Suite 232
Orlando, FL 32803

Subject: Permit Numbers, AC 05-189176, AC 05-189177, AC 05-189178, AC 05-190042,
AC 05-190668, AC 05-190797, AC 05-190798, AC 05-190799, AC 05-190800
AC 05-180707, Harris Semiconductor.

Dear Mr. Turner:

According to the requirements of the Florida Administrative Code 17-4, please find attached the Annual Operating Reports for the above mentioned Building permits for Harris Semiconductor Palm Bay Facility. Form 17-1.202(6) along with attachments were completed for calendar year 1990.

All future Harris Semiconductor's permit applications and other reports will be executed by Mr. John Steiner, Director Environmental and Facilities per the attached letter of Mr. J. Cornell, President of Harris Semiconductor.

If you have any questions or require any additional information, please contact me at (407) 729-5301.

Sincerely,

Constantine Triantafyllidis

Constantine Triantafyllidis, REP
Environmental Engineer
Environmental Services
Harris Semiconductor

cc: K. Smith
R. Cappadona
B. Mitchell, DER Tal.
C. Collins, DER Orl.
C. Fancy, DER Tal.

JON E. CORNELL
President

6 March 1991

TO WHOM IT MAY CONCERN:

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



Jon E. Cornell

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19____
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-190668
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 04

II ACTUAL OPERATING HOURS: See Attachment A _____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments B and C

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

3/29/91

DATE

J. Steiner, Director

TYPED NAME AND TITLE

Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TECHINKE
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19__
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-190798
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 51

II ACTUAL OPERATING HOURS: See Attachment A hrs/day days/wk wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
	N/A	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

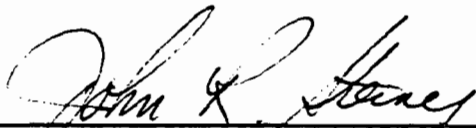
_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon _____ Other (Specify type and units) See Attachments B and C

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/91

DATE

J. Steiner, Director

TYPED NAME AND TITLE

Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19__
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-190800
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 54

II ACTUAL OPERATING HOURS: See Attachment A
_____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10 ⁶ cubic feet Natural Gas	_____ 10 ³ Kerosene
_____ 10 ³ gallons _____ Oil, _____ %S	_____ tons Coal
_____ 10 ³ gallons Propane	_____ tons Carbonaceous
_____ 10 ⁶ Black Liquor Solids	_____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)


_____ Particulates	_____ Sulfur Dioxide	_____ Total Reduced Sulfur
_____ Nitrogen Oxide	_____ Carbon Monoxide	_____ Fluoride
_____ Hydrocarbon	Other (Specify type and units) <u>See Attachments B and C</u>	

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
 EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



 SIGNATURE OF OWNER OR
 AUTHORIZED REPRESENTATIVE
 3/29/91

 DATE

_____ J. Steiner, Director
 TYPED NAME AND TITLE
 Environmental and Facilities

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAY
GOVERNOR
VICTORIA J. TSCHINKE
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19__
prior to March 1st of the following year.

I GENERAL INFORMATION

- 1. Source Name: Harris Corporation, Semiconductor Sector
- 2. Permit Number: AC 05-190799
- 3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
- 4. Description of Source: Building 55

II ACTUAL OPERATING HOURS: See Attachment A _____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV PRODUCT OUTPUT (Specify applicable units) _____
N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10 ⁶ cubic feet Natural Gas	_____ 10 ³ Kerosene
_____ 10 ³ gallons _____ Oil, _____ %S	_____ tons Coal
_____ 10 ³ gallons Propane	_____ tons Carbonaceous
_____ 10 ⁶ Black Liquor Solids	_____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

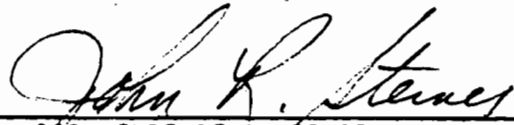
_____ Particulates	_____ Sulfur Dioxide	_____ Total Reduced Sulfur
_____ Nitrogen Oxide	_____ Carbon Monoxide	_____ Fluoride
_____ Hydrocarbon	Other (Specify type and units) <u>See Attachments B and C</u>	

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

Engineering estimation of fugitive VOC/Solvent Emissions. See Attachment D.
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

3/29/91

DATE

J. Steiner, Director

TYPED NAME AND TITLE

Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2800 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19__
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-189178
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 57

II ACTUAL OPERATING HOURS: See Attachment A hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
	N/A	tons/yr
		tons/yr
		tons/yr
		tons/yr
		tons/yr

IV PRODUCT OUTPUT (Specify applicable units) _____
N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10 ⁶ cubic feet Natural Gas	_____ 10 ³ Kerosene
_____ 10 ³ gallons _____ Oil, _____ %S	_____ tons Coal
_____ 10 ³ gallons Propane	_____ tons Carbonaceous
_____ 10 ⁶ Black Liquor Solids	_____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates	_____ Sulfur Dioxide	_____ Total Reduced Sulfur
_____ Nitrogen Oxide	_____ Carbon Monoxide	_____ Fluoride
_____ Hydrocarbon	Other (Specify type and units) <u>See Attachments B and C</u>	

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

3/29/91

DATE

J. Steiner, Director

TYPED NAME AND TITLE
Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19__
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-189176
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 58

II ACTUAL OPERATING HOURS: See Attachment A hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr) N/A

Raw Material

Input Process Weight

_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments B and C

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

3/29/91

DATE

J. Steiner, Director

TYPED NAME AND TITLE
Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19__
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-180707
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 59

II ACTUAL OPERATING HOURS: See Attachment A hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10 ⁶ cubic feet Natural Gas	_____ 10 ³ Kerosene
_____ 10 ³ gallons _____ Oil, _____ %S	_____ tons Coal
_____ 10 ³ gallons Propane	_____ tons Carbonaceous
_____ 10 ⁶ Black Liquor Solids	_____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates	_____ Sulfur Dioxide	_____ Total Reduced Sulfur
_____ Nitrogen Oxide	_____ Carbon Monoxide	_____ Fluoride
_____ Hydrocarbon	Other (Specify type and units) <u>See Attachments B and C</u>	

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
 EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/91

DATE

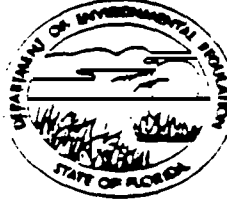
J. Steiner, Director

TYPED NAME AND TITLE

Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TCHINKEV
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19____
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-189177
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 60

II ACTUAL OPERATING HOURS: See Attachment A
_____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr) N/A

Raw Material	Input Process Weight	
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV PRODUCT OUTPUT (Specify applicable units) N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments B and C

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

3/29/91
DATE

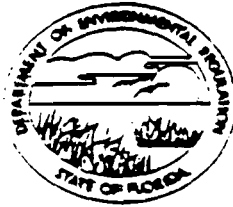
J. Steiner, Director

TYPED NAME AND TITLE

Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TCHINKEL
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19____
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-190797
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 62

II ACTUAL OPERATING HOURS: See Attachment A hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

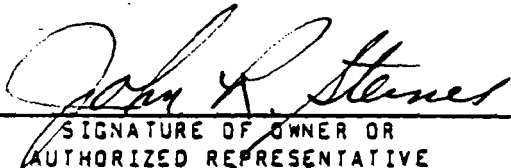
_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments B and C

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

3/29/91

DATE

J. Steiner, Director
TYPED NAME AND TITLE
Environmental and Facilities

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2800 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TCHINKE
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19____
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Harris Corporation, Semiconductor Sector
2. Permit Number: AC 05-190042
3. Source Address: 2401 Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 63

II ACTUAL OPERATING HOURS: See Attachment A _____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

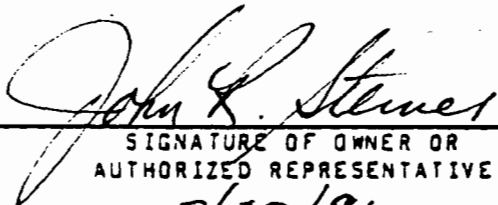
_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments B and C

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 25A (VOC/Solvent Emissions)
EPA Method 8 Modified (Acid Emissions)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

3/29/81

DATE

J. Steiner, Director
TYPED NAME AND TITLE
Environmental and Facilities

ATTACHMENT A.
1990 ACTUAL OPERATING HOURS

ACTUAL NUMBER OF OPERATING HOURS PER BUILDING/SOURCE
 AT HARRIS SEMICONDUCTOR, DURING CALENDAR YEAR 1990

BUILDING #	HRS/DAY	DAYS/WK	WKS/YR	TOTAL # OF HRS/YR
04	24	5	50	6744
	16	1	30	
	24	1	11	
51	24	5	50	6540
	18	1	30	
54	24	5	50	6468
	18	1	26	
55	10	5	50	2500
57	24	5	50	6936
	18	1	42	
	18	1	10	
58	24	5	50	6936
	18	1	42	
	18	1	10	
59	24	5	50	7242
	18	1	45	
	24	1	18	
60	24	5	50	6216
	18	1	12	
62	18	5	50	4580
	8	1	10	
63	24	5	50	6672
	24	1	28	

NOTE: * 6672 IS THE HIGHEST NUMBER OF TWO SEPARATE PRODUCTION LINES THAT EXHAUST TO COMMON SCRUBBER SYSTEMS AT BUILDING 63. THE OTHER LINE OPERATED 3752 HRS/YR.

ATTACHMENT B.

1990 VOC/SOLVENT EMISSIONS MONITORING DATA

TABLE 1. SUMMARY OF 1990 ANNUAL MONITORING RESULTS ON VOC/SOLVENT EMISSIONS EXPRESSED AS PROPANE. THE DATA IS BASED ON ACTUAL OPERATING HOURS AND THE JUNE STACK MONITORING.

BLDG NUMBER	SCRUBBER NUMBER	PPM AS PROPANE	VOLUM. FLOW	LBS/HR AS C3H8	TOTAL MONITORED BLDG EMISS LBS/HR	ACTUAL HRS/YR OF BLDG OPERATION	1990 BLDG EMISS TONS/YR
04	FO4S01	2.62	7597	0.14	2.96	6744	9.99
	FO4S02	1.70	12970	0.15			
	FO4S03	7.78	8502	0.45			
	FO4S08	60.00	5400	2.22			
51	F51S02	76.10	8470	4.42	8.96	6540	29.30
	F51S03	0.61	18310	0.08			
	F51S04	2.00	15555	0.21			
	F51S05	42.00	14761	4.25			
54	F54S01	10.63	29874	2.18	13.26	6468	42.87
	F54S02	7.27	21113	1.05			
	F54S03	22.94	29189	4.59			
	F54S04	27.06	29308	5.44			
57	F57S01	3.60	9328	0.23	0.23	6936	0.80
58	F58S01	4.77	7775	0.25	0.38	6936	1.32
	F58S02	1.46	2660	0.03			
	F58E01	2.70	5358	0.10			
59	F59S02	2.07	10972	0.16	0.27	7242	0.98
	F59EOX	11.66	1449	0.12			
60	F60S01	3.01	24109	0.50	0.50	6216	1.55
62	F62S02	1.00	11010	0.08	0.08	4580	0.17
63	F63S02	17.80	6460	0.79	1.40	6672	4.67
	F63S03	12.54	7098	0.61			
				-----	-----	-----	
				28.03	28.03		91.65

ATTACHMENT C.

1990 ACID EMISSIONS MONITORING DATA

TABLE 1. SUMMARY OF 1990 MONITORING RESULTS ON ACID EMISSIONS EXPRESSED AS HCL, HF, HNO3, HPO3 AND H2SO4 AND BASED ON ACTUAL OPERATING HOURS.

BLDG NUMBER	SCRUBBER NUMBER	EMISSIONS LBS/HR					TOTAL BLDG EMISS	ACTUAL HRS/YR	TOTAL	
		HCL	HF	HNO3	HPO3	H2SO4	LBS/HR	OF BLDG OPERATION	TONS/YR	
04	F04S01	0.004	0.004	<0.001	<0.001	0.008	0.018	0.241	6744	0.813
	F04S02	0.045	0.053	<0.001	<0.001	0.015	0.115			
	F04S03	0.002	0.004	<0.001	<0.001	0.012	0.020			
	F04S04	0.055	0.003	<0.001	0.000	0.020	0.079			
	F04S05	<0.001	<0.001	<0.001	<0.001	0.005	0.009			
51	F51S01	0.002	<0.001	<0.001	<0.001	0.009	0.014	0.196	6540	0.641
	F51S03	0.006	0.016	<0.001	<0.001	0.015	0.039			
	F51S04	0.013	0.037	0.065	<0.001	0.027	0.143			
54	F54S01	0.489	0.013	<0.001	<0.001	0.034	0.538	1.730	6468	5.595
	F54S02	0.005	0.003	<0.001	<0.001	0.026	0.036			
	F54S03	0.852	0.042	0.003	<0.001	0.188	1.086			
	F54S04	0.029	0.003	<0.001	<0.001	0.036	0.070			
55	F55S01	0.002	<0.001	<0.001	<0.001	0.013	0.018	0.018	2500	0.023
57	F57S01	0.002	<0.001	<0.001	<0.001	0.010	0.015	0.015	6936	0.052
58	F58S01	0.003	<0.001	<0.001	<0.001	0.013	0.019	0.019	6936	0.066
59	F59S01	0.009	0.007	<0.001	<0.001	0.029	0.047	0.047	7242	0.170
60	F60S01	0.008	0.002	<0.001	<0.001	0.038	0.050	0.050		
62	F62S01	0.005	0.001	<0.001	<0.001	0.025	0.033	0.033	4580	0.076
63	F63S01	0.004	0.001	<0.001	<0.001	0.020	0.027	0.027	6672	0.090
		-----	-----	-----	-----	-----	-----	-----	-----	-----
		1.536	0.194	0.085	0.018	0.543	2.376	2.376		7.525

NOTE: VALUES OF <0.001 REPRESENT LOWER THAN DETECTABLE LIMITS BY THE ANALYTICAL INSTRUMENTATION FOR THE ABOVE CHEMICALS AND SHOULD BE CONSIDERED NEGLIGIBLE. FOR CALCULATION PURPOSES A WORST CASE CONDITION IS CONSIDERED USING THESE NUMBERS AS 0.001.

ATTACHMENT D.

**FUGITIVE SOLVENT EMISSIONS CALCULATION
FOR BUILDING 55**

POTENTIAL SOLVENT EMISSIONS RESULTING FROM
BOTTLE CRUSHING OPERATION IN BUILDING 55
DURING 1990

waste solvent components	percent %	volume of air (cu ft)	volume of air (liters)	VAPOR PRESS. (Torr)	# OF MOLES (n)	MW	EMISSN (lb/yr)	
ACETONE	33.0	6397.7	181183.1	200.0	1948.7	58	249.17	
METHANOL	21.0	4071.3	115298.4	120.0	744.1	32	52.49	
IPA	13.0	2520.3	71375.2	17.0	65.3	60	8.63	
PGMEA	2.5	484.7	13726.0	3.8	2.8	132	0.82	
CELLOSOLVE ACETATE	0.3	48.5	1372.6	10.0	0.7	132	0.21	
ETHANOL	0.8	155.1	4392.3	54.2	12.8	46	1.30	
FREON TF	3.2	620.4	17569.3	334.0	315.6	188	130.79	
MISC. SOLVENTS	4.0	775.5	21961.6	100.0	118.1	100	26.04	
N-BUTYL ACETATE	3.0	581.6	16471.2	8.7	7.7	115	1.95	
TOLUENE	5.0	969.4	27452.0	29.0	42.8	92	8.68	
TCE	0.6	116.3	3294.2	18.0	3.2	132	0.93	
TCA	0.1	19.4	549.0	120.0	3.5	134	1.05	
XYLENE	1.5	290.8	8235.6	7.0	3.1	106	0.72	
WATER	12.0	2326.4	65884.8	N/A	N/A	N/A	N/A	
-----							TOTAL	482.79

NOTES

- Records from January 1st through December 31st, 1990, indicate an average of 29 gondolas/week of one gallon solvent bottles are crushed in Building 55.

$$(29 \text{ gondolas/week}) (50^* \text{ weeks/year}) = 1450 \text{ gondolas/year}$$

$$(1450 \text{ gondolas/yr}) (\sim 100 \text{ bottles/gondola}) = 145000 \text{ bottles/year}$$

$$(145000 \text{ gallons}) (0.1337 \text{ cu. ft./gal}) = 19387 \text{ cu. ft. of air}$$

- 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:

$$1.) \quad (\text{cubic feet}) (28.32) = \text{liters}$$

$$2.) \quad (\# \text{ of moles}) (\text{grams/mole or MW}) (1 \text{ lb./453.59 gm}) = \text{lbs. of emission}$$

* 50 represents the number of weeks in which gondolas were delivered to Building 55

PM
3-18-91
Melbourne, FL

F. H. G. G.
General



RECEIVED
MAR 20 1991
DER-BAQM

March 15, 1991

Mr. John Turner
Engineer
State of Florida
Department of Environmental Regulation
3319 Maguire Blvd, Suite 232
Orlando, FL 32803

Subject: Permit Number A005-188383, Industrial Grade Water System with Vacuum Degasifier and Flare System, Harris Semiconductor.

Dear Mr. Turner:

According to specific condition number 11 of the above mentioned permit, please find attached the Annual Operating Report for the Vacuum Degasifier with the Flare system at Harris Semiconductor Palm Bay Facility. Form 17-1.202(6) was completed for calendar year 1990. We apologize for the delay in this year's submittal of the report.

All future Harris Semiconductor's permit applications and other reports will be executed by Mr. John Steiner, Director Environmental and Facilities per the attached letter of Mr. J. Cornell, President of Harris Semiconductor.

If you have any questions or require any additional information, please contact our office at (407) 729-5301.

Sincerely,

Constantine Triantafyllidis

Constantine Triantafyllidis, R.E.P.
Environmental Engineer
Environmental Services
Harris Semiconductor

cc: K. Smith
B. Mitchell, DER Tal.
C. Collins, DER Orl.

C. Fancy, DER Tal.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2800 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



GOVERNOR
VICTORIA J. TECHIN
SECRET

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19____
prior to March 1st of the following year.

I GENERAL INFORMATION

- 1. Source Name: HARRIS SEMICONDUCTOR
- 2. Permit Number: _____
- 3. Source Address: Palm Bay Road
Palm Bay, Florida 32902-0883
- 4. Description of Source: Industrial Grate Water System with Vacuum Degasifier and Flare System

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
<u>N/A</u>	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tone Coal
_____ 10³ gallons Propane _____ tone Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tone Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

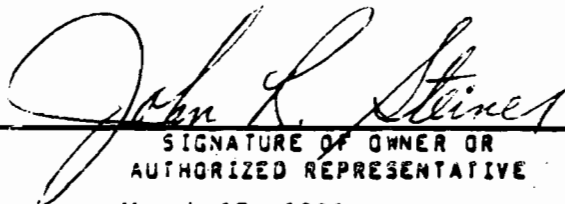
_____ Particulates _____ 3.68 _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon _____ Other (Specify type and units) _____

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 15

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

March 15, 1991

DATE

J. Steiner, Director
TYPED NAME AND TITLE
Environmental and Facilities



JON E. CORNELL
President

6 March 1991

TO WHOM IT MAY CONCERN:

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



Jon E. Cornell



File 697

February 1, 1991

Mr. John Turner
Engineer
State of Florida
Department of Environmental Regulation
3319 Maguire Blvd, Suite 232
Orlando, FL 32803

Subject: Permit Numbers AC 05-165757, AC 05-157786, AC 05-147321, AC 05-164544,
AC 05-161706, AC 05-159484, AC 05-150794, AC 05-168460, AC 05-157787,
AC 05-158237, Harris Semiconductor.

Dear Mr. Turner:

Following our recent phone conversation, this letter is submitted on behalf of Harris Semiconductor to request relief from the 1990 Mass Balance requirement per the specific condition of the permits mentioned above.

Modified construction permits are to be issued shortly which will supercede the current permits. The new permits will exclude the Mass Balance condition and necessitate annual stack monitoring to determine VOC/solvent emissions from the different sources.

Stack monitoring requirements were fulfilled for 1990 and the data are representative of the nature and amount of VOC emissions emanating from the facility. Mass Balance data would merely be duplicative of this sampling data. In addition, a copy of the 1990 SARA 313 report to the EPA, which includes air emissions information could be submitted to the District in July, 1991. This report provides information similar to the current annual Mass Balance report.

If you have any questions or require any additional information, please contact our office at (407) 729-5301.

Sincerely,

Constantine Triantafyllidis

Constantine Triantafyllidis
Environmental Engineer
Environmental Services
Harris Semiconductor

cc: L. Hutker
K. Smith
B. Mitchell, DER Tal.
C. Collins, DER Orl.
C. Fancy, DER Tal.



RECEIVED

SEP 17 1990

DER-BAQM

September 12, 1990

Mr. Pius Sanabani
Engineer
Florida Department of Environmental Regulation
3319 Maguire Boulevard, Suite 232
Orlando, Fl 32803

SUBJECT: HARRIS SEMICONDUCTOR, BUILDINGS 4, 51, 54, 63.
Notification of Monitoring
Scrubber Systems F04S04, F51S03, F54S02, F63S02.

Dear Mr. Sanabani:

In accordance with the conditions of the Amendments to Construction Permit numbers AC 05-147321, AC 05-168460 and AC 05-157786 dated June 15, 1990, the purpose of this letter is to notify the Central Florida District Office that monitoring of scrubbers F51S03, F63S02 and F54S01 (previously named F63S01) has been scheduled for a three day period beginning October 2, 1990.

As mentioned in previous correspondence, the original scrubbers F54S01 and F54S02 servicing Building 54 have been replaced by scrubber F63S01 from Building 63. Scrubber F63S01 will be renamed F54S01. Furthermore, scrubber F04S04 will be monitored at this time because it was being repaired during the last round of monitoring in June, 1990.

The scrubber systems efficiency will be established utilizing EPA Method 25A or EPA Method 8 as required. The monitoring work will be performed by Air Consulting & Engineering, Inc. of Gainesville.

Should you have any questions or require any additional information please contact our office at (407) 729-5301.

Sincerely,

Constantine Triantafyllidis

Constantine Triantafyllidis, R.E.P.
Environmental Services

cc: C. Collins, P.E., Central Dist.
S. Smallwood, P.E., Tallahassee
B. Mitchell, Tallahassee



RECEIVED

SEP 11 1990

DER - BAQM

September 10, 1990

Bruce Mitchell
Engineer
Bureau of Air Quality Management
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RE: Air Permitting Activities

Dear Mr. Mitchell:

This letter is to update you on the activities Harris Semiconductor has taken or plans to undertake in the areas of odor abatement and air permitting. As such, three subjects will be addressed: odor abatement activities, operating permit application strategy and emission reduction programs.

ODOR ABATEMENT

The information contained within this section was presented to the FDER Orlando office on August 2nd. Our odor abatement activities centered around three separate areas: manufacturing changes, chemical substitution and stack extensions.

MANUFACTURING CHANGES

In the area of manufacturing changes, we completed a process review of all phenol-based chemical use areas. This chemical had been identified due to the nature of the odor complaints and because of its' low odor threshold. During our process review, we found three separate work stations that utilized phenol-based chemistry. Several process changes were undertaken in order to reduce emissions:

Heating time - Historical practice has called for these chemical baths to be poured up and heated for a complete shift (8 hours). An engineer reviewing the processes found that there were significant periods of time when the baths were not actually in use. Through further analyses, the engineer was able to reduce heating time by 50% in two of the stations while reducing the remaining station's heating time by 25%. These changes significantly reduced the emissions from these processes.

New tank installation - To further reduce emissions, new chemical process tanks were installed. These new tanks heat the chemicals in a more efficient manner which reduces the amount of chemical volatilized from the bath. In addition, these tanks have a more efficient exhaust system which also reduces emissions from the process.

Cover installation - In order to further reduce the emissions from the processes, lids have been fabricated and installed over the tanks. These lids are put in place whenever the baths are not being used.

CHEMICAL SUBSTITUTION

The most significant activity has been our efforts to remove the phenol-based materials from production altogether. This issue has been lengthy because our customers, which in many instances are various branches of the U.S. government, must approve all production changes. These requirements, referred to as baseline issues, involve the completion of extensive testing and quality control analysis prior to the customer's acceptance of the production change.

In our efforts, the first step, finding a suitable chemical alternative, took approximately five months. This involved an extensive vendor survey, site visits to production facilities and the screening of many chemical options. The second step, internal testing, has just been completed and took approximately three months. This involved a series of quality and analytical tests to determine if the non-phenolic based chemistries performed up to the baseline standards. We have recently presented our findings to our customers (Raytheon, Lockheed, Rockwell and Northrop) to get their approval for the chemical substitution. Previous efforts to accomplish this have taken up to nine months to complete. We feel that in this case, however, the customers will sign off on the process changes in an expeditious manner.

Advantages of the new system, in addition to odor abatement, include a major reduction in the use of acetone as a rinse, the elimination of phenolic strippers and the use of chemicals with higher flash points. We feel that this substitution will provide the added benefit of reducing the total emission of VOC's from this facility.

STACK EXTENSIONS

The final element of the odor abatement program was through modifications to the existing air pollution control equipment. The two scrubbers on the west side of B54 will be replaced with a more efficient scrubber from B63. The single scrubber will also have an additional ten foot extension placed on the existing scrubber stack. This work is expected to be completed during the week of 9/2. In addition, the stacks on the east side of B54 have been raised ten feet. Modeling has shown that these extensions should decrease maximum off-site ground level concentrations of volatile organic compounds by approximately 50%.

OPERATING PERMIT STRATEGY

As you have discussed with Nancy Baldisserotto and Constantine Triantafyllidis in recent phone conversations, we are currently preparing to submit applications to obtain operating permits. These efforts had been curtailed due to the odor abatement activities over the past few months. As our abatement activities are approaching successful completion, we will be refocusing our efforts on preparing the necessary operating permits for this facility.

It is our understanding that operating permits are issued based on information contained in the corresponding construction permits. As such, we are currently in the process of preparing modifications for our existing construction permits. These modifications are being prepared to ensure the current construction permits reflect the changes we have discussed during the last several months. In addition, we will be reviewing our permit limits to ensure that they truly reflect maximum potential air emissions as defined by FDER.

We intend to submit each construction permit modification as it is completed. As such, the first modification should be submitted to your office within three weeks. The submission of modifications should subsequently be completed by October 31st.

EMISSIONS REDUCTION PROGRAM

We have recently renewed our emphasis on the development and implementation of an emissions reduction program for the site. This program will use the construction permit modification efforts as a baseline with which to measure our future reduction efforts. In addition, the data will also be used to determine the effectiveness of our past reduction efforts. Our efforts in the reduction program will focus on two areas: source reduction and alternative control technology. As such, the following steps will be implemented on a plant-wide basis:

- * Operational Review - We have begun a thorough review of emission sources on this site. This review will ensure that the current configuration of the processes minimizes potential air emissions. These efforts will concentrate on such areas as lid installation for process tanks, proper bath heating techniques, optimal air flow and proper production techniques.
- * Chemical Substitution - We will continue to investigate alternate chemistries that could reduce air emissions from a given source. This procedure will be similar to the substitution efforts made in the odor abatement program.
- * Equipment Substitution - These efforts will be closely tied to the chemical substitution process. We will be attempting to find alternate production methods that, when implemented, could reduce emissions.
- * Technology Survey - We will continue to review cost effective control technologies that could, in appropriate circumstances, be employed to reduce the emissions from certain processes on this facility.

Please call me at (407) 729-5736 if, upon review of this letter, you feel that it would be desirable to schedule an informational meeting. In addition, please contact me if you have any further questions concerning the points addressed in this letter.

Sincerely,

A handwritten signature in cursive script that reads "Kent Smith".

Kent Smith
Manager, Environmental Services

cc: Chuck Collins, DER/Orlando
Caroline Shine, DER/Orlando
Rob Sands, Harris Corporation
Bob Cappadona, Harris Semiconductor
Larry Hutker, Harris Semiconductor



Rec'd. BAR
7-16-90
WWR

July 13, 1990

Charles M. Collins, P.E.
Program Administrator
Air Resources Management
Florida Department of Environmental Regulation
3319 Maguire Boulevard, Suite 232
Orlando, Fl 32803

SUBJECT: HARRIS SEMICONDUCTOR
Notification of Stack Height Extensions
Scrubber Nos. F54S01, F54S02, F54S03, F54S04
Air Permit No. AC 05-147321

Dear Mr. Collins:

As a follow up to our previous correspondence (March 23 and May 2, 1990) an engineering evaluation has been completed for the design and structural feasibility to add stack extensions. Consequently, this letter is to notify the Central Florida District office that installation of stack height extensions for scrubber nos. F54S03 and F54S04 has been scheduled to begin July 23, 1990.

In addition, pursuant to the Department's approval (see correspondence of June 15, 1990), the replacement of the existing scrubber nos. F54S01 and F54S02 with scrubber no. F63S01 will be conducted at that time. Barring unforeseen problems, the construction activities should be completed by the first week of September.

Should you have any questions, require any additional information or wish to have a representative present during the construction activities, please call our office at (407) 729-5301.

Sincerely,

Constantine Triantafyllidis

Constantine Triantafyllidis
Environmental Services

cc: G. Kuberski
C. Fancy
B. Mitchell



RECEIVED
JUN 20 1990
DER-BAQM

LEGAL DEPARTMENT

June 15, 1990

Certified Mail

Douglas H. MacLaughlin
Senior Attorney
General Counsel's Office
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

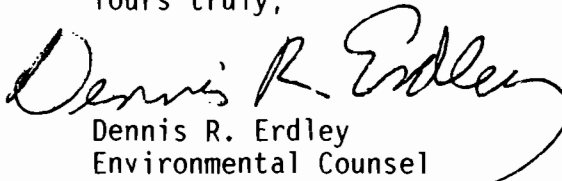
Re: Petition for Hearing
Air Operating Permit Nos. A005-121935 & A005-121928

Dear Doug:

This letter is submitted, on behalf of Harris Semiconductor Sector, Inc. (Semiconductor"), a subsidiary of Harris Corporation, concerning the Petition for Hearing filed with respect to the above-referenced operating permits. At this time, it is Semiconductor's understanding that the applications for the operating permits have been withdrawn. As a consequence, Semiconductor is withdrawing its May 16th Petition for Hearing.

Your assistance in resolving this matter is greatly appreciated.

Yours truly,


Dennis R. Erdley
Environmental Counsel

DRE:pc
E/905/90

cc: A. Alexander
C. Collins
B. Mitchell
R. Sands
K. Smith



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

File Copy

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

Interoffice Memorandum

TO: Chuck Collins
FROM: Clair Fancy *CF*
DATE: May 29, 1990
SUBJ: Harris Semiconductor - VOC Emission Limits

In response to your memo dated April 5, 1990, I offer the following comments:

- In discussions with Bruce Mitchell, the permitting engineer who has reviewed these construction permits, compliance is to be determined using a material balance and an AOR.
- The control systems shall be tested to provide an indication of instantaneous emission rate and to establish a worst case annual emission rate (i.e., 8760 vs actual).
- Due to federal enforceability and rule (17-2.500(6)), the operating conditions and provisions/specific conditions of the operating permit shall be as set forth in the construction permit.

CF/BM/plm

*Ready File
Bruce Mitchell*

5-29-90 RM



LEGAL DEPARTMENT

May 17, 1990

Certified Mail

Douglas H. MacLaughlin
Senior Attorney
General Counsel's Office
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Fl. 32301

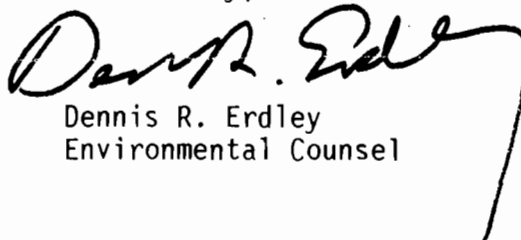
Re: Air Operating Permit Nos. A005-121935 & A005-121928

Dear Doug:

This letter is submitted, on behalf of Harris Semiconductor Sector, Inc. ("Semiconductor"), a subsidiary of Harris Corporation, concerning the above-referenced recently issued operating permits. Semiconductor is the applicant/operator concerning these permits. At this time, Semiconductor withdraws the applications for operating permits associated with the above-referenced permit numbers.

Please give me a call if you have questions or wish to discuss this matter further. Thank you for your assistance.

Yours truly,



Dennis R. Erdley
Environmental Counsel

cc: A. Alexander
C. Collins
B. Mitchell ✓
R. Sands
K. Smith

E/687/90
DRE:pc

5/15/90.

Bruce,
Your department accidentally
sent us your originals

Have a good day!

Nancy

RECEIVED
MAY 17 1990
Bill Brown



RECEIVED
MAY 18 1990

LEGAL DEPARTMENT

May 16, 1990

DER-BAQM

Fax and Express Mail

Douglas Maclaughlin
Senior Attorney
General Counsel's Office
Florida Department of Environmental
Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Fl. 32301

Petition for Hearing

Re: Air Operating Permit Nos. A005-121935 & A005-121928

Dear Doug:

This petition for hearing is submitted, on behalf of Harris Semiconductor Sector, Inc. ("Semiconductor"), a subsidiary of Harris Corporation, concerning the above-referenced recently issued operating permits. Semiconductor is the applicant/operator concerning these permits. Because of time constraints and other factors, further information concerning the petitioner is not necessary at this time. Petitioner objects to all terms and conditions of the above-referenced permits.

Please give me a call if we need to discuss this matter further at this time. Thank you for your assistance.

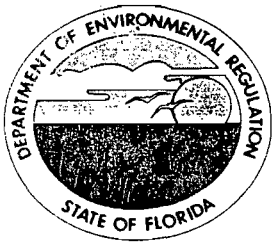
Yours truly,

Dennis R. Erdley
Environmental Counsel

cc: A. Alexander
C. Collins
B. Mitchell ✓
R. Sands
K. Smith

E/118/90
DRE:pc

Handwritten notes at top right of page.



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

FAX TRANSMITTAL LETTER

DATE: 5/16/90

TO:

NAME Kent Smith, Nancy Baldisserotto

AGENCY: Harris Semiconductor - Environmental Affairs

TELEPHONE: (407) 729-5153

NUMBER OF PAGES (INCLUDING COVER SHEET) 3

FROM:

NAME: Bruce Mitchell

AGENCY: DER/DARM/BAR

IF ANY OF THE PAGES ARE NOT CLEARLY RECEIVED, PLEASE CALL IMMEDIATELY. PHONE NO. (904) 488-1344

SENDERS NAME: Bruce Mitchell

COMMENTS:

sent @ 5-16-90 9:36 a.m. RBW

HOPPING BOYD GREEN & SAMS

ATTORNEYS AND COUNSELORS

123 SOUTH CALHOUN STREET

POST OFFICE BOX 6526

TALLAHASSEE, FLORIDA 32314

(904) 222-7500

FAX (904) 224-8551

CARLOS ALVAREZ
JAMES S. ALVES
BRIAN H. BIBEAU
ELIZABETH C. BOWMAN
WILLIAM L. BOYD, IV
RICHARD S. BRIGHTMAN
PETER C. CUNNINGHAM
WILLIAM H. GREEN
WADE L. HOPPING
FRANK E. MATTHEWS
RICHARD D. MELSON
WILLIAM D. PRESTON
CAROLYN S. RAEPPEL
GARY P. SAMS
ROBERT P. SMITH, JR.

KATHLEEN BLIZZARD
THOMAS M. DeROSE
RICHARD W. MOORE
DIANA M. PARKER
LAURA BOYD PEARCE
MICHAEL P. PETROVICH
DAVID L. POWELL
DOUGLAS S. ROBERTS
CECELIA C. SMITH
SAM J. SMITH
CHERYL G. STUART

May 14, 1990

OF COUNSEL
W. ROBERT FOKES

BY HAND DELIVERY

Dale H. Twachtmann, Secretary
c/o Office of General Counsel
Florida Department of Environmental
Regulation
2600 Blair Stone Road, Room 654
Tallahassee, Florida 32399-2400

Re: Florida Mining & Materials
Brooksville Cement Plant Kiln No. 2
Permit No. AC27-173474

Dear Secretary Twachtmann:

On April 30, 1990, Florida Mining & Materials ("FMM") received the Department's Notice of Intent to issue air construction permit No. AC27-173474 for Kiln No. 2 at its Brooksville Cement Plant located in Hernando County, Florida. The Department's Technical Evaluation and Preliminary Determination was received along with the Notice of Intent. Pursuant to the Notice of Intent, FMM has until May 14, 1990 to file a petition for administrative proceedings regarding the permit.

I am writing on behalf of FMM to request an extension of thirty (30) days, to and including June 13, 1990, in which to file a petition for administrative proceedings regarding the permit. This request is made pursuant to Florida Administrative Code Rule 17-103.070, which provides that a timely request for extension of time shall toll the running of the time period in which to file an appropriate petition. As good cause for granting the requested extension of time for filing, FMM would show the following:

Dale H. Twachtmann, Secretary
May 14, 1990
Page 2

1. The proposed permit contains fourteen specific conditions, several of which appear to warrant clarification or correction.

2. FMM representatives will be discussing the proposed permit and accompanying Technical Evaluation and Preliminary Determination with permitting staff of the Department's Bureau of Air Regulation in the near future.

3. This request is filed as a protective measure to avoid waiver of FMM's rights to challenge the permit as proposed. Grant of this request will allow the parties an opportunity to discuss the pertinent permit provisions and to achieve a mutually acceptable resolution of points in need of clarification or correction, without the initiation of formal administrative proceedings.

I hereby certify that I have contacted Clair Fancy, Chief of the Department's Bureau of Air Regulation, regarding this matter and that he does not object to the grant of this request.

Accordingly, I respectfully request that you formally extend the time for filing of a petition for administrative proceedings in regard to the Departments Notice of Intent to issue air construction permit No. AC27-173474 to and including June 13, 1990.

Sincerely,



Peter C. Cunningham

FlMinExt:PCC/gbb

cc: Clair Fancy, P.E.
Gary Smallridge, Esquire
C. M. Coleman, Jr.



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Alex Alexander, Deputy Assistant Secretary

NOTICE OF PERMIT

Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901

Attention: L. R. Hutker, P.E.
Director Facilities Department

Brevard County - AP
Building 55 - Chemical Vapor Exhaust Scrubber

Dear Mr. Hutker:

Enclosed is Permit Number A005-121935, dated 4/30/90, to operate the above referenced source, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to 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.

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Bill Thomas, PE III

Initial

Date

2.

AIR BAQM

Initial

Date

3.

CAPS - Room 306G

Initial

Date

4.

TT Tull

Initial

Date

REMARKS:

RECEIVED
MAY 14 1990
DER-BAQM

INFORMATION

Review & Return

Review & File

Initial & Forward

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

FROM:

*Air Resources Mgmt
Central District*

DATE

5-11-90

PHONE

This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

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

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

c m c Charles Rivers deppula for

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803

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

Gene B. Barkin 4/30/90
Clerk Date

ADZ
AA/jtj

Copies furnished to:
✓ Bill Thomas, Tallahassee

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 5-1-90 to the listed persons, by D. Jones.



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Alex Alexander, Deputy Assistant Secretary

Permittee:

Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901

Attention: L. R. Hutker, P.E.
Director Facilities Department

I. D. Number:

Permit/Certification

Number: A005-121935

Date of Issue:

Expiration Date: **April 30, 1995**

County: Brevard

Latitude/Longitude:

28°01'20"N/80°36'10"W

UTM: 17-538.7 KmE; 3100.9 KmN

Project: Building 55 Chemical
Vapor Exhaust Scrubber

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. 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:

The permittee can operate the collection area with an exhaust hood to be used as the storage and shipping point of chemical containers in Building 55. A 1,000 dscfm fume scrubber manufactured by Harrison is installed to control chemical vapors.

This source is located at Palm Bay Road in Palm Bay, Brevard County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:
Harris Semiconductor

Attention: L. R. Hütker, P.E.
Director Facilities Department

I. D. Number:
Permit/Certification Number:
A005-121935
Date of Issue:
Expiration Date: April 30, 1995

SPECIFIC CONDITIONS:

OPERATING LIMITS

1. The maximum operating hours allowed shall be 24 hours per day, 365 days per year, for a total of 8,760 hours per year.
2. A meter to measure the pressure drop shall be installed on the scrubber system.
3. The chemical vapor exhaust scrubber must be on during the working hours and when damaged containers exist and escaping vapors are being controlled.

EMISSION LIMITS

4. The projected chemical emissions from the work area and scrubber system are 19.2 pounds per year of POCl_3 and 3.1 pounds per year of BBr_3 .
5. Objectionable odors shall not be allowed off plant property.

COMPLIANCE TESTING

6. Compliance with the VOC/solvent emissions limit for the working stations and the scrubber system shall be determined through sampling and analysis. A sample shall be taken and analyzed annually from the date of December 1, 1989 to determine the scrubber's efficiency. An annual report, summarizing the sampling results, shall be due sixty (60) days after the anniversary date of the operating permit and is to be submitted to DER's Central District Office.
7. A report shall be submitted annually to DER's Central District Office. The report shall address the entire Harris Semiconductor facility and reflect the amounts of all VOC/solvents by chemical, purchased and reclaimed or disposed of off-site.
8. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.

PERMITTEE:
Harris Semiconductor

Attention: L. R. Hutker, P.E.
Director Facilities Department

I. D. Number:
Permit/Certification Number:
AO05-121935
Date of Issue:
Expiration Date: April 30, 1995

EXPIRATION DATE

9. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

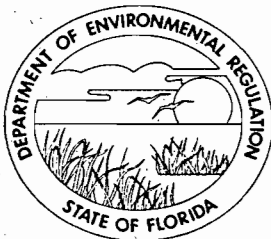
ISSUED

4/30/90

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

cmc Carlos Luis de Agila for

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Alex Alexander, Deputy Assistant Secretary

NOTICE OF PERMIT

Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901

Attention: L. R. Hutker, P.E.
Director Facilities Department

Brevard County - AP
Building 62 - VOC/Solvent Vapor Exhaust Scrubber

Dear Mr. Hutker:

Enclosed is Permit Number A005-121928, dated 4/30/90, to operate the above referenced source, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to 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.

This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

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

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

c.m.c. Carlos Rivera de Aguilera for

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803

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

Debra B. Baskin 4/30/90
Clerk Date

AA
AA/jtj

Copies furnished to:
✓ Bill Thomas, Tallahassee

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 5-1-90 to the listed persons, by D. Jones.



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Alex Alexander, Deputy Assistant Secretary

Permittee:

Harris Semiconductor
Post Office Box 883
Melbourne, Florida 32901

Attention: L. R. Hutker, P.E.
Director Facilities Department

I. D. Number:

Permit/Certification
Number: A005-121928

Date of Issue:

Expiration Date: **April 30, 1995**

County: Brevard

Latitude/Longitude:

28°01'20"N/80°36'10"W

UTM: 17-538.7 KmE; 3100.9 KmN

Project: Building 62 VOC/Solvent
Vapor Exhaust Scrubber

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. 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:

The permittee can operate hood type work stations for the manufacture of semiconductors in Building 62. A 12,000 dscfm fume scrubber manufactured by Beverly Pacific is installed to control VOC/solvent vapors.

This source is located at Palm Bay Road in Palm Bay, Brevard County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:
Harris Semiconductor

Attention: L. R. Hutker, P.E.
Director Facilities Department

I. D. Number:
Permit/Certification Number:
A005-121928
Date of Issue:
Expiration Date: April 30, 1995

SPECIFIC CONDITIONS:

OPERATING LIMITS

1. The maximum operating hours allowed shall be 8 hours per day, 264 days per year, for a total of 2,112 hours per year.
2. A meter to measure the pressure drop shall be installed on the scrubber system.
3. The VOC/solvent vapor exhaust scrubber must be on during the working hours.

EMISSION LIMITS

4. The maximum allowable VOC (volatile organic compounds)/solvent emissions from the work stations and scrubber system shall be 113.4 pounds per year.
5. Objectionable odors shall not be allowed off plant property.

COMPLIANCE TESTING

6. Compliance with the VOC/solvent emissions limit for the working stations and the scrubber system shall be determined through sampling and analysis. A sample shall be taken and analyzed annually from the date of December 1, 1989 to determine the scrubber's efficiency. An annual report, summarizing the sampling results, shall be due sixty (60) days after the anniversary date of the operating permit and is to be submitted to DER's Central District Office.
7. A report shall be submitted annually to DER's Central District Office. The report shall address the entire Harris Semiconductor facility and reflect the amounts of all VOC/solvents by chemical, purchased and reclaimed or disposed of off-site.
8. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.

PERMITTEE:
Harris Semiconductor

Attention: L. R. Hutker, P.E.
Director Facilities Department

I. D. Number:
Permit/Certification Number:
A005-121928
Date of Issue:
Expiration Date: April 30, 1995

EXPIRATION DATE

9. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

ISSUED

4/30/90

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

cmc *Carl Rivers de Aguiar for*

A. Alexander
Deputy Assistant Secretary
3319 Maguire Boulevard
Suite 232
Orlando, Florida 32803

P 938 762 866

RECEIPT FOR CERTIFIED MAIL

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

Sent to <i>Kent Smith - HS</i>	
Street and No. <i>P.O. Box 883</i>	
F.O. State and ZIP Code <i>Melbourne FL</i>	
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	\$
Postmark or Date <i>4-30-90</i> <i>9 Pmts</i>	

PS Form 3800, June 1985

● **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. (Extra charge) 2. Restricted Delivery (Extra charge)

3. Article Addressed to: <i>Kent Smith</i> <i>Harris Semiconductor</i> <i>P.O. Box 883</i> <i>Melbourne, FL</i> <i>32902-0883</i>		4. Article Number <i>P938 762 866</i>	
		Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
5. Signature - Address <i>X</i>		Always obtain signature of addressee or agent and DATE DELIVERED.	
6. Signature - Agent <i>X</i> <i>Harris Semiconductor</i>		8. Addressee's Address (ONLY if requested and fee paid)	
7. Date of Delivery <i>4-30-90</i>			



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

April 27, 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:

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

The Department has reviewed Ms. Nancy Baldisserotto's letter received March 12, 1990, 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, -164544 and -168460.

o Expiration Date

From: April 30, 1990
To: December 31, 1990

B. AC 05-150794

o Specific Condition

11. (New)

If the strategies relating to Building 59, as outlined in Mr. Kent Smith's letters dated March 12 and April 19, 1990, do not eliminate objectionable odor complaints, then the entire facility, on a per building basis, will have to be evaluated for eliminating objectionable odors.

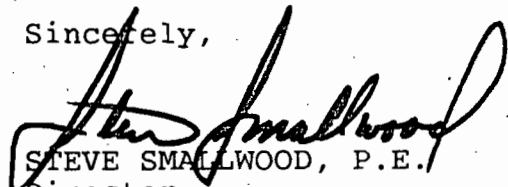
Mr. Kent Smith
Page 2
April 27, 1990

C. Attachments to be Incorporated

- o Ms. Nancy Baldisserotto's letter received March 12, 1990.
- o Mr. Kent Smith's letter dated March 12, 1990.
- o Mr. Kent Smith's letter dated April 19, 1990.

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

Sincerely,

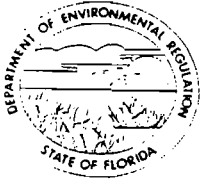


STEVE SMALLWOOD, P.E.
Director
Division of Air Resources
Management

SS/BM/plm

Attachment

c: C. Collins, Central Dist.
N. Baldisserotto, HS



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Steve Smallwood
FROM: Clair Fancy *CF*
DATE: April 27, 1990
SUBJ: Amendment of Construction Permits
Harris Semiconductor

Attached for your approval and signature is a letter that will amend nine construction permits issued to the above mentioned company to extend the expiration dates. Due to complaints of objectionable odor and investigations by the Central District office, the construction permit for Building 59 will have a new Specific Condition established directing the permittee to resolve the issue.

CF/plm



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum **RECEIVED**

APR 25 1990

OCD-AP-90-096
DER 96 BAQM

CENTRAL DISTRICT

To: Clair Fancy, Bureau Chief, Bureau of Air Regulation
Through: A. Alexander, Deputy Assistant Secretary
Through: Charles Collins, District Air Program Administrator *cme*

From: Alan D. Zahm, Supervisor, Air Permitting *ADZ*

Date: April 5, 1990

Subject: Harris Semiconductor - VOC Emission Limit

A recent review of construction permits issued to Harris Semiconductor from the Tallahassee office has shown a compliance VOC limit which is not in the best interests of this office.

The permits are issued with compliance determined by "an annual operating report...demonstrating compliance with the VOC emission limit...determined by a material balance scheme." Stack testing, which is also part of the specific conditions, are used to determine the scrubber efficiency and potential VOC, solvent, and acid emissions. An attachment with Gary Kuberski's analysis is provided to help explain the situation.

This office would like to have compliance evaluated by stack testing. The main reason for this opinion is to make sure the pollution control device is properly maintained. If the stack testing shows troublesome emissions, the department will have leverage to get the scrubber (the pollution control device) properly maintained. It is this office's opinion the scrubbers are lacking proper maintenance and having the permit written to evaluate the scrubbers for compliance would lead to less emissions through better maintenance and attention. Having improved maintenance keeps the emissions down every day and minimizes the potential for compliance and enforcement in the future.

We understand the reasoning for the material balance approach in these permits, however, the office would also like to have compliance evaluated by stack testing. We would like your response to include this condition with the Harris construction permits or we would like to take this action when the operating permit is issued.

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Clair Fancy

Initial

Date

2.

Bureau Chief

Initial

Date

3.

Bureau of Air Regulation

Initial

Date

4.

Tallahassee

Initial

Date

REMARKS:

*4/26
Bruce*

*Let's discuss. Can we
emcorporate in permit?*

Clair

INFORMATION

Review & Return

Review & File

Initial & Forward

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

RECEIVED

APR 25 1990

DER - BAQM

FROM:

C M Callis

Air Program

Central District

DATE

4/24/90

PHONE

To: File
From: Garry Kuberski
Date: February 7, 1990
Subject: Harris Semiconductor
Permit AC 05-147321, expiration April 30, 1990
Building 54, four VOC scrubbers,
VOC Emission Limit and method of compliance determination

Specific condition number 5 of the above referenced permit states the following:

"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. 54 and shall be determined by a material balance scheme"

Although specific condition number 6 of the permit requires annual testing by Method 25 (which was modified to Method 25A) it does not state that compliance shall be determined by the testing. In addition there is no emission limit in terms of pounds VOC per hour. An annual maximum emission rate is specified in specific condition 1 of 95.7 tons per year.

It appears that the intent of this permit was to determine compliance with an annual operating report not annual testing.

If the assumption is made that the maximum allowable emissions of 95.7 tons per year specified in specific condition number 1 can be converted to pounds per hour and that the test required in specific condition number 6 can be used to determine compliance, then the testing of August 1989 has shown a violation of the emission limit. (See test report review.)

The material balance for 1989 ~~does not show~~ a violation of the annual emission limit.

~~NOT SUBMITTED~~

Please advise which method of compliance determination is correct.

Review of Method 25A stack test report
Harris Corporation--Semiconductor division

Building 54 VOC scrubbers

Permit Number AC 05-147321

Test conducted by Air Consulting and Engineering (Steve Neck)

August 1989

From permit 95.7 tons per year is max. allowed,

From permit 8760 hours per year max is allowed,

If the assumption is made that the yearly emission limit can be put on an

hourly basis, then: $(95.7 \text{ tons/yr})(2000 \text{ lb/ton}) \left(\frac{1 \text{ yr}}{8760 \text{ hr}} \right) = 21.95 \text{ lb/hr}$

From test report emission rate from system 1, is 2.53 lb/hr

From test report emission rate from system 3, is 2.13 lb/hr

Emission rate system 1 and 3 ----- 11.66 lb/hr

Total VOC emission rate from scrubbers $11.66 \times 2 = 23.32 \text{ lb/hr}$

RECEIVED

APR 23 1990

DER - BAQM



April 19, 1990

Express Mail

Charles M. Collins, P.E.
Program Administrator
Air Resources Management
Central Florida District
Florida Department of Environmental Regulation
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

RE: Brevard County - AP
Warning Notice - OWN-AP-89-0151

Dear Mr. Collins:

This letter is submitted on behalf of Harris Corporation, Semiconductor Sector as an update of our odor abatement activities. It is my intention to send you regular updates on our activities until such a time as the problem is resolved. Please understand that this letter and subsequent correspondence in no way relieves us of any obligation under our continuing response activities concerning the above referenced warning notice. In addition, this information is a synopsis of a discussion I had with Caroline Shine on April 13th.

We have continued to attack the odor issue from several different angles. Within the production areas, we have begun to look at chemical substitution as a potential solution. We have established a testing protocol designed to remove certain phenol-based chemicals and substituting a chemical with less "odor potential." Due to customer testing requirements, this change should take approximately three to four months to implement.

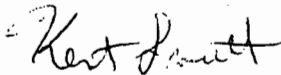
Lids have also been installed on some of these phenol-based processes effective the week of April 9th. This will reduce the potential for emissions from these processes to contribute to the odor issue. We have also reduced the use of these processes from eight hours per shift to four hours per shift. This reduces the exposure of these baths to the exhaust system thereby reducing emissions. Unfortunately, these actions have also resulted in some difficult, although manageable, production issues.

Jacobs Engineering (JE) has completed three days of on-site sampling this week. The sampling was accomplished with an Organic Vapor Analyzer and will be used to determine what chemicals may be contributing to the odor issue. Results are due back late this week. JE also completed an initial pass of dispersion modeling but with limited results. These were faxed to Caroline last week. JE will be running additional dispersion models to add to the depth of this analysis.

Finally, JE ran dispersion models to determine the effects of additional stack height. The initial results, run at a 20 foot extension, showed that emissions could be reduced 75% at ground level. As such, we are requesting additional modeling with a ten foot extension. Our facilities department is currently obtaining quotes and determining appropriate engineering requirements for these stack additions.

The items in this memo will be discussed in more detail in our subsequent correspondence due to you by May 4th. Please contact me at 729-5736 if I can clarify any of the items discussed in this letter.

Yours truly,



Kent Smith
Manager, Environmental Services

cc: D. R. Erdley
R. R. Sands
L. R. Hutker
J. R. Steiner
C. Shine (FDER)
B. Mitchell (FDER)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2808 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32309



RECEIVED

APR 03 1990

DER-BAQ:m

SOB GRAMA
GOVERNOR

VICTORIA J. TECHINKI
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19____
prior to March 1st of the following year.

I GENERAL INFORMATION

- 1. Source Name: HARRIS SEMICONDUCTOR
- 2. Permit Number: AC 05-174446
- 3. Source Address: Palm Bay Road
Palm Bay, Florida 32902-0883
- 4. Description of Source: Industrial Grade Water System with Vacuum Degasifier and Flare System

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
	N/A	tons/yr
		tons/yr
		tons/yr
		tons/yr
		tons/yr

IV PRODUCT OUTPUT (Specify applicable units) N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

10^6 cubic feet Natural Gas 10^3 Kerosene
10^3 gallons Oil, %S 10^3 tons Coal
10^3 gallons Propane 10^3 tons Carbonaceous
10^6 Black Liquor Solids 10^3 tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tone/yr)

Particulates 5.39 Sulfur Dioxide Total Reduced Sulfur
Nitrogen Oxide Carbon Monoxide Fluoride
Hydrocarbon Other (Specify type and units) _____

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

EPA Method 15

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer
SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE
3/28/80
DATE

A. N. Critzer/Plant Manager
TYPED NAME AND TITLE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2809 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHA
GOVERNOR
VICTORIA J. TECHINKE
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19__
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: HARRIS SEMICONDUCTOR
2. Permit Number: AC 05-165757
3. Source Address: Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 4

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr.

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
<u>N/A</u>	<u>_____</u> tons/yr
<u>_____</u>	<u>_____</u> tons/yr
<u>_____</u>	<u>_____</u> tons/yr
<u>_____</u>	<u>_____</u> tons/yr
<u>_____</u>	<u>_____</u> tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tone Coal
_____ 10³ gallons Propane _____ tone Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tone Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/90

DATE

A. N. Critzer/Plant Manager

TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tone Coal
_____ 10³ gallons Propane _____ tone Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tone Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon _____ Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/80
DATE

A. N. Critzer/Plant Manager

TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10 ⁶ cubic feet Natural Gas	_____ 10 ³ Kerosene
_____ 10 ³ gallons _____ Oil, _____ %S	_____ tone Coal
_____ 10 ³ gallons Propane	_____ tone Carbonaceous
_____ 10 ⁶ Black Liquor Solids	_____ tone Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)


_____ Particulates	_____ Sulfur Dioxide	_____ Total Reduced Sulfur
_____ Nitrogen Oxide	_____ Carbon Monoxide	_____ Fluoride
_____ Hydrocarbon	Other (Specify type and units) <u>See Attachments A & B.</u>	

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



 SIGNATURE OF OWNER OR
 AUTHORIZED REPRESENTATIVE

 3/29/80
 DATE

 A. N. Critzer/Plant Manager
 TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tone Coal
_____ 10³ gallons Propane _____ tone Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tone Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments B & C.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- 1. Engineering estimation (attachment C. - solvent emissions)
- 2. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/90

DATE

A. N. Critzer/Plant Manager
TYPED NAME AND TITLE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 SLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRANA
GOVERNOR
VICTORIA L. TECHINKE
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19____
prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: HARRIS SEMICONDUCTOR
2. Permit Number: AC 05-161706
3. Source Address: Palm Bay Road
Palm Bay, Florida 32902-0883
4. Description of Source: Building 57

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight
<u>N/A</u>	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr
_____	_____ tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/90

DATE

A. N. Critzer/Plant Manager

TYPED NAME AND TITLE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
1600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRANA
GOVERNOR
VICTORIA J. TECHINKE
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19__
prior to March 1st of the following year.

I GENERAL INFORMATION

- 1. Source Name: HARRIS SEMICONDUCTOR
- 2. Permit Number: AC 05-159484
- 3. Source Address: Palm Bay Road
Palm Bay, Florida 32902-0883
- 4. Description of Source: Building 58

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
<u>N/A</u>	<u></u>	<u>tons/yr</u>
<u></u>	<u></u>	<u>tons/yr</u>
<u></u>	<u></u>	<u>tons/yr</u>
<u></u>	<u></u>	<u>tons/yr</u>
<u></u>	<u></u>	<u>tons/yr</u>

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tone Coal
_____ 10³ gallons Propane _____ tone Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tone Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tone/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/28/90

DATE

A. N. Critzer/Plant Manager

TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tone Coal
_____ 10³ gallons Propane _____ tone Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tone Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide, _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/90

DATE

A. N. Critzer/Plant Manager

TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tone Coal
_____ 10³ gallons Propane _____ tone Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tone Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer
SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE
3/29/90
DATE

A. N. Critzer/Plant Manager
TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/90

DATE

A. N. Critzer/Plant Manager

TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tone Coal
_____ 10³ gallons Propane _____ tone Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tone Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tone/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

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A. N. Critzer
SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE
3/29/90
DATE

A. N. Critzer/Plant Manager
TYPED NAME AND TITLE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAMMAS
GOVERNOR
VICTORIA J. TECHINKE
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19____
prior to March 1st of the following year.

I GENERAL INFORMATION

- 1. Source Name: HARRIS SEMICONDUCTOR
- 2. Permit Number: AC 05-158237
- 3. Source Address: Palm Bay Road
Palm Bay, Florida 32902-0883
- 4. Description of Source: Buidlign 63

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
N/A		tons/yr
		tons/yr
		tons/yr
		tons/yr
		tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/90

DATE

A. N. Critzer/Plant Manager
TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content. (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tone Coal
_____ 10³ gallons Propane _____ tone Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tone Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer
SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

3/29/90
DATE

A. N. Critzer/Plant Manager
TYPED NAME AND TITLE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2800 SLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32309



BOB GRAM
GOVERNOR
VICTORIA J. TSCHINKA
SECRETAR

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19__
prior to March 1st of the following year.

I GENERAL INFORMATION

- 1. Source Name: HARRIS SEMICONDUCTOR
- 2. Permit Number: AC 05-168460
- 3. Source Address: Palm Bay Road
Palm Bay, Florida 32902-0883
- 4. Description of Source: Building 60

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
N/A		tons/yr
		tons/yr
		tons/yr
		tons/yr
		tons/yr

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer
SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE
3/28/90
DATE

A. N. Critzer/Plant Manager
TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.



SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

3/29/90

DATE

A. N. Critzer/Plant Manager

TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tone Coal
_____ 10³ gallons Propane _____ tone Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tone Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

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SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE

3/28/90

DATE

A. N. Critzer/Plant Manager

TYPED NAME AND TITLE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2800 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32309



BOB GRAM
GOVERNOR
VICTORIA J. TECHINKE
SECRETARY

ANNUAL OPERATION REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19____
prior to March 1st of the following year.

I GENERAL INFORMATION

- 1. Source Name: HARRIS SEMICONDUCTOR
- 2. Permit Number: AC 05-161706
- 3. Source Address: Palm Bay Road
Palm Bay, Florida 32902-0883
- 4. Description of Source: Building 57

II ACTUAL OPERATING HOURS: 24 hrs/day 7 days/wk 52 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT: (List separately all materials put into process
and specify applicable units if other than tons/yr)

Raw Material	Input Process Weight	
<u>N/A</u>	<u></u>	<u>tons/yr</u>
<u></u>	<u></u>	<u>tons/yr</u>
<u></u>	<u></u>	<u>tons/yr</u>
<u></u>	<u></u>	<u>tons/yr</u>
<u></u>	<u></u>	<u>tons/yr</u>

IV PRODUCT OUTPUT (Specify applicable units)

N/A

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon _____ Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/90

DATE

A. N. Critzer/Plant Manager

TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liqueur Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments B & C.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- 1. Engineering estimation (attachment C. - solvent emissions)
- 2. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

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A. N. Critzer

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/90

DATE

A. N. Critzer/Plant Manager
TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon _____ Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

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A. N. Critzer

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/90

DATE

A. N. Critzer/Plant Manager

TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S). N/A

_____ 10⁶ cubic feet Natural Gas _____ 10³ Kerosene
_____ 10³ gallons _____ Oil, _____ %S _____ tons Coal
_____ 10³ gallons Propane _____ tons Carbonaceous
_____ 10⁶ Black Liquor Solids _____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates _____ Sulfur Dioxide _____ Total Reduced Sulfur
_____ Nitrogen Oxide _____ Carbon Monoxide _____ Fluoride
_____ Hydrocarbon Other (Specify type and units) See Attachments A & B.

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

VIII CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

A. N. Critzer
SIGNATURE OF OWNER OR
AUTHORIZED REPRESENTATIVE
3/29/90
DATE

A. N. Critzer/Plant Manager
TYPED NAME AND TITLE

V TOTAL FUEL USAGE including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1% S).

N/A

_____ 10 ⁶ cubic feet Natural Gas	_____ 10 ³ Kerosene
_____ 10 ³ gallons _____ Oil, _____ %S	_____ tons Coal
_____ 10 ³ gallons Propane	_____ tons Carbonaceous
_____ 10 ⁶ Black Liquor Solids	_____ tons Refuse

Other (Specify type and units) _____

VI EMISSION RATE(S) (tons/yr)

_____ Particulates	_____ Sulfur Dioxide	_____ Total Reduced Sulfur
_____ Nitrogen Oxide	_____ Carbon Monoxide	_____ Fluoride
_____ Hydrocarbon	Other (Specify type and units) <u>See Attachments A & B.</u>	

VII METHOD OF CALCULATING EMISSION RATES (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

- A. Solvent mass balance
- B. EPA method 8 (acid emissions.)

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A. N. Critzer

SIGNATURE OF OWNER OR AUTHORIZED REPRESENTATIVE

3/29/90

DATE

A. N. Critzer/Plant Manager

TYPED NAME AND TITLE

**HARRIS SEMICONDUCTOR
1989 SOLVENT MATERIAL BALANCE**

INTRODUCTION

This report addresses each permitted building at the Harris Semiconductor facility and reflects the amounts of all VOC/solvents purchased, reclaimed, disposed of off-site, discharged in waste water, or released to the atmosphere. The report covers the period of January 1, 1989 through December 31, 1989. The following reports and sources of information were used in preparing this report:

- A.) In-house Accounting Reports
- B.) In-house Common Stock Reports
- C.) Harris Waste Profiles
- D.) Harris Waste Analysis Reports
- E.) Waste tracking sheets
- F.) ACE Air Monitoring Reports
- G.) Daily Waste Water Reports
- H.) Enviropact Lab Reports
- I.) 1988 and 1989 Chemical Inventories
- J.) Water flow meter information

The following material balance scheme was utilized to determine solvent emissions for 1989:

- 1) A beginning inventory of full containers, cylinders, and storage tanks;
- 2) plus all purchased deliveries after the beginning inventory;
- 3) minus all quantities picked-up and shipped off the premises;
- 4) minus all quantities deep well injected;
- 5) minus an ending inventory of full containers, cylinders, and storage tanks.

A more detailed discussion of the data sources and assumptions used to determine each permitted building's air emissions is included in this report.

SUMMARY OF RESULTS

DER 17-2.100(186) defines a "solvent" as organic materials which are liquid at standard conditions and which are used as dissolvers, viscosity reducers, or cleaning agents.

In 1987 and 1988, site-wide solvent mass reports were prepared; these reports were not specific to each building on the site. This report is a comprehensive and detailed attempt to quantify the volume of the VOC/solvents consumed by each permitted building, on the site during calendar year 1989, and to identify the chemicals final disposition. In order to successfully complete this mass balance, a number of chemical distribution and hazardous waste tracking systems were developed. These will be discussed in further detail later in this report. Attachment I summarizes the results of the solvent mass balance on a by-building basis.

Approximately 433.45 tons of solvents were delivered to the applicable buildings during 1989. Physical inventories revealed 30.93 tons of chemicals in these buildings in December of 1988, and 24.32 tons present in December of 1989. Waste shipments accounted for 284.19 tons of solvents, and 38.40 tons were deepwell injected. Based on this material balance scheme, approximately 119 tons of solvent emissions were determined to be emitted from the buildings. This figure demonstrates compliance with the site limit of 153.53 tons/year.

BUILDINGS 4, 51, 54, 57, 60, 62 & 63

Using the above defined material balance scheme, buildings 4, 51, 54, 57, 60, 62, and 63 were found to be in compliance (see attachment I.)

Using the material balance equation defined in the Introduction section of this report, air emissions for Buildings 60 and 62 were shown to reflect a deficit. Because negative air emissions are not possible, this result can be assumed to be the consequence of any of the limitations inherent in the material balance scheme, including:

- A. Chemical inventories represent the amount of chemicals present on the given day chosen to inventory the building. Because of the limitations involved in attempting to inventory the site in one day, or in some cases, even a particular building in one day, it is difficult to achieve an exact calendar year inventory.
- B. Variables associated with the assumptions made with respect to waste profile, analysis, and shipment information, and wastewater data could over- or underestimate the amount of chemicals inventoried. See the 'Assumptions' sections of this report for more detailed explanations.
It should be noted that 1989 stack sampling demonstrated these

two buildings to be the lowest emitters of solvent emissions for the site. Both buildings were shown to emit less than one ton a year of solvents.

BUILDING 55

Building 55 is the collection, short term storage and shipping point for waste chemicals from the facility. A standard mass balance scheme to prove compliance for this building is not applicable because;

- (1) No chemicals are purchased for use in building 55.
- (2) All the chemicals present in the building are waste chemicals collected from other buildings. These chemicals are already accounted for (see section on building waste tracking.)
- (3) Inventory information would be inconclusive because the amount of waste chemicals stored in the building is solely dependent on dates of waste shipments.

The only solvent air emissions attributed to building 55 are fugitive emissions resulting from a bottle crushing operation. The engineering calculations used to derive this estimate are contained in attachment II of this report. The amount of fugitive emissions is dependent on the number of bottles processed. By reviewing the number of gondolas of bottles processed for 1989, no increase has occurred. Hence, if the number of bottles processed has not increased, fugitive emissions can be assumed to remain at 0.28 tons/year, which is the established permit limit for the building.

BUILDING 58

Using the mass balance scheme, building 58's air emissions were estimated to be 5.46 tons/year (permit limit is 3.24 tons/year.) However, monitored emissions for 1989 on a worse case basis showed the emissions to be considerably less (3.29 tons/year.) By reviewing the inventory data, it is apparent that this deficit could be attributed to the fact that there was more than twice the volume of solvents inventoried in 1988 than were present during the 1989 inventory. Representatives of the building informed Environmental Services that an inspect area, and it's corresponding chemical inventory was relocated from building 58 to building 63 during October of 1989. This could account for the increased inventory in building 63, and the decreased inventory for building 58.

Because of the nature of a mass balance, a substantial decrease in ending inventory results in a larger value expressed for air emissions. In this case, chemicals were relocated to another building. Consequently, building 63's inventory is shown

to have increased by close to the amount that building 58's was shown to have decreased from 1988 to 1989. Further discussion is included in the Conclusions and Recommendations section of this document.

BUILDING 59

The mass balance for building 59 showed air emissions to be 5.46 tons/year. However, monitored emissions were considerably lower (1.18 tons/year.) A permit modification application was recently submitted to the Tallahassee district office requesting increased emissions for the building (from 0.50 tons/year to 2.37 tons/year based on engineering estimations.) It is possible that the increased emission limit requested does not adequately estimate emissions. Further discussion of this building is included in the Conclusions and Recommendations section of this report.

DISCUSSION, ASSUMPTIONS, & METHODS OF CALCULATION

MATERIAL SAFETY DATA SHEETS:

Most of the chemicals used by Semiconductor in its manufacturing processes are not pure chemical compounds, but rather mixtures or trade name chemicals. Therefore, it is necessary to rely on the manufacturers' MSDS to obtain information on the specific components of the process chemicals used. The sheets also provide density and specific gravity information on both pure chemicals and mixtures.

Many manufacturers consider the exact formulation of their products proprietary and therefore will provide only approximate concentrations for the specific components. The listed range of a particular component can be quite large. For purposes of this report when it was necessary to use a concentration range for a solvent the mid point of the range was used for purposes of calculation. This approach was utilized in an attempt to neither over nor under report on the quantity of chemical purchased.

WASTE SHIPMENTS:

All of the hazardous waste generated from each building is shipped off-site to an approved facility for disposal. The shipments leaving Semiconductor's facility, whether sent for recycle or disposal, are accompanied by a Hazardous Waste Uniform Manifest. All current State, EPA, and DOT regulations are followed in the preparation, distribution, and retention of the waste manifests.

Solvent component concentration of waste streams is derived from two sources; waste analyses and profile information.

WASTE ANALYSIS:

The most accurate data base available on waste streams is currently on bulk shipments. Initially, this data base was created to ensure the safe shipment of large quantities of chemicals over public roads by licensed transporters. A chemical analysis is performed on every bulk shipment.

These analyses accompany every bulk shipment which leaves the Semiconductor facility. The waste analysis is performed for these components which are likely to be present in the waste stream.

In addition to bulk shipments, Semiconductor collects and ships a significant amount of waste in fifty-five gallon drums and smaller containers. Drummed wastes are collected at point of use locations and brought to a central location within the facility, where they are checked and temporarily stored prior to shipment to an off-site facility for ultimate disposal.

Because of the large number of drums shipped (approximately 200 drums/month), it would be impractical to analyze samples from every container. Therefore, drummed wastes are spot checked, and random samples are taken for analysis.

Results of the waste analyses are averaged for each applicable waste stream, and these results are used to determine the component concentration of solvents.

WASTE PROFILES:

In 1984, Semiconductor began compiling and evaluating detailed chemical profiles of the specific waste streams generated by the manufacturing processes. The profiles are based on in-house laboratory analyses. The chemical analyses are used to define a range for the individual components of the various constituents. For purposes of this report, the midpoint of this range was used to define component concentration of the applicable waste streams.

The profiles are evaluated annually and updated to reflect any significant changes that may have occurred in the manufacturing processes. In addition, to evaluation of existing profiles, new profiles are added when a new process or chemical is introduced which does not fit any existing waste description. At the present time, there are 69 waste profiles that are managed by the environmental staff of Semiconductor, 18 of which contain solvent constituents.

Attachment III contains an example of a typical waste profile. As can be seen from the example, the profiles indicate a minimum and maximum range in percent for the individual constituents of concern. Some of these profiles are for very minor streams which are generated infrequently. Others are wastes generated on a regular basis.

WASTE TRACKING BY BUILDING:

In order to account for the amount of drummed waste from each building, a drum tracking system was established. A similar concept was employed to track bulk tank waste from each building. Examples of a drum tracking log sheet and a tank log sheet are included in attachment III.

Attachment IV demonstrates the spreadsheets used to calculate the total amount of pounds of solvent waste from each building. The total amount of each waste stream collected was multiplied by the percent of each solvent component (as determined by profile or analysis) to determine the amount of gallons of solvent component present. This number was then multiplied by the specific gravity of the solvent and by the conversion factor 8.34 (density of water)

to determine pounds of solvent in the waste stream.

ASSUMPTIONS ON WASTE SHIPMENTS:

The following assumptions were made in calculating the amount of waste collected and shipped off site for each building:

- A. All drums contain 55 gallons of material.
- B. All of Building 60's solvent waste is collected in building 54's drums. Therefore, the percentage of waste from building 60 was calculated based on the percentage of solvents purchased for the building;

Total solvents purchased for B54 & B60 = 208.10 tons

Total solvents purchased for B60 = 1.33 tons

$1.33 \text{ tons} / 208.10 \text{ tons} = 0.0064 \text{ (or } .64\%)$

86.9 tons drummed waste collected at B54

$86.9 \text{ tons} \times .0064 = 0.56 \text{ tons attributed to B60.}$

C. There were a number of lab pack shipments which have not been accounted for in the mass balance. The total volume of these materials was well under 100 gallons and would have had little if any impact on the outcome of the material balance, and therefore was assumed to be insignificant.

WASTE WATER DISCHARGE:

Harris Semiconductor discharges it's Treated Industrial Waste Water in accordance with its Underground Injection Control Permit Number UC05-1265191. The industrial water treatment plant collects and treats all industrial water from the semiconductor manufacturing facility. All manufacturing and process support equipment discharges to the treatment plant and ultimately to the industrial deep well. There are no discharges to surface water or to POTWs from the facility. The only water discharged to the local POTW is water from the sanitary facility and cafeterias.

Attachment V contains flow and monitoring data from the treatment plant from the period of January 1, 1989 through December 31, 1989. During this time period the facility treated approximately 438.1 million gallons of water. Specific solvent constituent data with the exception of those substances required by permit was not collected in 1989. However, historically, concentrations of wastewater constituents have shown little variation. Therefore, 1988 data was utilized and is assumed to be representative for 1989. Attachment VI lists the parameters which were shown to be present in the wastewater. The average observed concentration was utilized with the volume of water discharged for 1989 to calculate the quantity of solvents which were discharged during the course of the year.

The average flows during the month were used to calculate the quantity of solvents which were discharged during the respective months. These monthly volumes were then totaled to obtain the annual quantity discharged. The following is an example of the calculations which were utilized:

$$\begin{aligned} \text{Average concentration of Acetone} &= 1700 \text{ ppb} \\ &= 1.7 \text{ ppm} \end{aligned}$$

$$\frac{(1.7 \text{ mg/L} \times 3.785 \text{ L/gal} \times 0.001 \text{ g/mg})(43,400,000 \text{ gal Dec})}{454 \text{ g/lb}} = 615.1 \text{ lbs}$$

The above calculation was then repeated for each month of 1989. The monthly totals were then added. This same procedure was repeated for each parameter.

The information obtained indicated that during 1989 approximately 38.40 tons of solvents were discharged in the industrial waste water. It should be noted that although trihalomethanes were found to be present in the wastewater, these chemicals were found to be present in the incoming water from the local drinking water utility. These materials are not used in the manufacturing areas. Therefore, the loading of these compounds was not included in the 38.40 tons which were calculated.

In order to determine the amount of solvents contributed from each building, the flow rates of the scrubber wastewater and the rinse water were summated for each building. The percent of total

flow was determined for each building, and this percentage was used to derive the total tonnage of solvents from each building. Attachment VI summarizes these calculations.

ASSUMPTIONS ON WASTEWATER DISCHARGE:

The following assumptions were made in calculating the quantities of solvents deepwell injected from each building;

- A. Rinse water flow rates from each building were considered to be equal to the metered amounts of distilled process water sent to each building. These quantities are metered.
- B. Scrubber wastewater from each building were derived by summing the amount of make-up water sent to each building's scrubber systems. These quantities are metered.
- C. The amount of solvents generated from each building is directly proportional to the amount of rinse water and scrubber wastewater being generated from each building.

CHEMICAL INVENTORY:

During the months of December 1988 and December 1989, Harris Semiconductor conducted a detailed physical inventory of all chemicals currently in use at the facility.

This information has become the beginning and ending inventories for all process and process support chemicals used at the Palm Bay facility. These inventories were a joint project between Harris personnel in the Environmental, Health and Safety, and Quality Control Departments. The inventory information is loaded and stored in Semiconductor's Chemical Inventory Data Base.

More than one half of the chemicals used at Semiconductor are Trade Name Chemicals. The chemicals are generally a mixture of several components. Separate entries are made for mixtures and their associated components. For example, Harris may use 10 trade name chemicals which all have the same four components in varying concentrations. This will result not in the management of four or ten chemicals but fourteen different chemicals. This tends to complicate the chemical management process, but is necessary to maintain a high level of accuracy.

Harris purchased a custom computer program that compiled the chemical inventories for December 1988 and December 1989 by building, and converted the units of the pure chemicals and chemical components to pounds. This data is included in attachment VII. The solvents were then identified, and a total was summated for each building.

PURCHASED DELIVERIES:

In order to determine the quantity of solvents purchased during 1989 for each building, the Purchase Order Database containing the purchasing records for calendar year 1989 was reviewed and all pure solvents and mixtures containing solvents were identified by building. Because this database showed all common stock chemicals as being delivered to building 61 (the common stock distribution building), a separate report (the Common Stock Order report) was utilized to determine common stock chemical deliveries to each building.

Once this information had been obtained, the "chemicals" had to be converted to appropriate units of measurement. The chemical records contain various units of measurement (i.e. gallons, pints, cubic feet, pounds, kilograms, drums, cases, etc.) These had to be converted to pounds. The pound weight of the chemical mixtures were then adjusted to reflect the pound weight of solvents contained in them. Attachment VIII shows the spreadsheet used to perform these conversions.

ASSUMPTIONS ON PURCHASED CHEMICALS:

The following assumptions was made in calculating chemicals purchased for building 57:

A. All of the chemicals utilized in building 57 are purchased by and delivered to building 58. These chemicals are then hand carried to building 57. Because purchasing and common stock reports show all of the chemicals for buildings 57 and 58 as being delivered to building 58, the amount received and used in building 57 was assumed to be in proportion to the amount of air emissions identified during stack monitoring. The following calculation was used to calculate chemicals purchased for building 57:

Total solvent purchased for B57 & B58 = 12.23 tons

Monitored air emissions for B57 = 1.66 ton/yr

Monitored air emissions for B57 + B58 = 4.90 ton/yr

1.66 ton/yr divided by 4.90 ton/yr = 0.34 or 34%

34% of 12.23 tons = 4.14 tons of chemicals

CONCLUSIONS AND RECOMMENDATIONS

This report has been prepared and submitted to the Department of Environmental Regulation in accordance with Harris' previous agreements with the Department. The report has been prepared with the most accurate information available. Harris believes that the information represents the VOC/solvents which were used and their ultimate disposition.

Due to changes in operations and chemical inventory locations Harris Semiconductor suggests that it is appropriate for the Department to consider the following adjustments to the mass balance report:

BUILDINGS 58 & 63

1. For building 63, it can be assumed that the amount of solvents inventoried in 1989 would be relatively equal to the amount inventoried for 1988 if the white room area had not been relocated into this building.
2. Subtract the relocated chemicals from building 63's ending inventory and add the amount to building 58's ending inventory.
3. The adjusted mass balance results for these two buildings would be as follows:

Building 58:

Beginning inventory	=	5.30 tons
Purchased solvents	=	8.11 tons
Waste shipments	=	3.22 tons
Deepwell injected	=	1.29 tons
Adjusted Ending inventory	=	5.83 tons
Air emissions	=	3.07 tons

Building 63:

Beginning inventory	=	1.37 tons
Purchased solvents	=	11.63 tons
Waste shipments	=	4.09 tons
Deepwell injected	=	1.73 tons
Adjusted Ending inventory	=	1.37 tons
Air Emissions	=	5.81 tons

The adjustment results in a net increase in the amount of solvent air emissions from building 63, and a net decrease to the amount of air emissions from building 58. Based on the fact that chemicals were relocated from one building to the other, the above adjustments result in a more accurate estimation of air emissions from each building.

Harris Semiconductor will be requesting the following adjustments be made to the permit limits for each building:

BUILDINGS 59 & 51

The results for building 59 show air emissions to be 5.46 tons/year. Modified permit limits estimate emissions to be 2.37 tons/year.

While activity and operations in building 59 has increased, consolidation of wafer fabrication operations in building 51 indicate a decrease in chemical activity and the resulting air emissions. This is supported by the results of the mass balance for the building. The permit limit for building 51 is 33.29 tons/year; however, air emissions for the building are considerably less (17.30 tons/year.)

It is requested that the emission limit for building 59 be increased to 6.0 tons/year to account for the emissions, and, in turn, the permit limit for building 51 be reduced to 27.29 tons/year.

Please note that the modifications recommended above do not effect the site limit of 153.53 tons/year. It is believed that the requested adjustments will reflect a more accurate representation of the percentage of air emissions being generated by each building.

SOLVENT MASS BALANCE

***BEGINNING INVENTORY OF FULL CONTAINERS,
CYLINDERS, AND STORAGE TANKS AT
BEGINNING OF CALENDAR YEAR***

+ PLUS +

***ALL PURCHASED DELIVERIES AFTER THE
BEGINNING INVENTORY (VERIFIABLE BY INVOICES)***

- MINUS -

***ALL QUANTITIES PICKED-UP AND SHIPPED-OFF THE
PREMISE AFTER THE BEGINNING INVENTORY
(VERIFIABLE BY INVOICES)***

- MINUS -

***ALL QUANTITIES DEEPWELL INJECTED (JUSTIFIED
BY ASSUMPTIONS AND SCRUBBER EFFICIENCIES)***

- MINUS -

***AN ENDING INVENTORY OF FULL CONTAINERS,
CYLINDERS, AND STORAGE TANKS AT BEGINNING
OF FOLLOWING CALENDAR YEAR***

ATTACHMENT I.

SUMMARY OF RESULTS -- 1989 SOLVENT MASS BALANCE
(ALL UNITS IN TONS)

BLDG	PURCHASED	+88INVENT	-WASTE SHIP	-DEEFWELL	-89INVENT	= AIR EMISSNS	PERMIT LIMIT
4	47.41	4.77	25.60	13.27	3.87	9.44	10.96
51	97.01	5.61	78.12	5.82	1.38	17.30	33.29
54	206.77	7.19	122.34	8.41	6.13	77.08	95.65
55	N/A	N/A	N/A	0.76	N/A	NA	0.28
57	4.18	0.17	0.38	2.16	0.17	1.64	1.66
58	8.11	5.30	3.22	1.29	2.60	6.30	3.24
59	52.65	4.62	46.25	1.73	3.83	5.46	2.37
60	1.33	0.76	0.56	1.62	0.46	-0.55	0.75
62	4.36	1.15	3.63	0.86	1.28	-0.26	0.83
63	11.63	1.37	4.09	1.73	4.60	2.57	6.14
TOTALS	433.45	30.93	284.19	38.40	24.32		

ATTACHMENT II.

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 (lb/yr)
ACETONE	33.0	7341.8	207920.9	200.0	2236.3	58	285.94
METHANOL	21.0	4672.1	132313.3	120.0	853.9	32	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.

$$(32 \text{ gondolas/week})(52 \text{ weeks/year}) = 1664 \text{ gondolas/year}$$

$$(1664 \text{ gondolas/yr})(\sim 100 \text{ bottles/gondola}) = 166400 \text{ bottles/year}$$

$$(166400 \text{ gallons})(0.1337 \text{ cu. ft./gal}) = 22248 \text{ cu. ft. of air}$$

- 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

ATTACHMENT III.

WASTE COMMON NAME: 1,1,1 TRICHLOROETHANE
DOT SHIPPING NAME: WASTE 1,1,1 TRICHLOROETHANE
DOT HAZARD CLASS : ORM-A

UN/NA NUMBER: UN2831
EPA ID # : F001

AUTHORIZED BULK CONTAINER: NONE
AUTHORIZED DRUM CONTAINER: 17-E / 55 GALLON

AUTHORIZED TSDF	TSDF WASTE ID #	AUTHORIZED TRANSPORTER
1.): ALLWORTH	1.): HARSEM003	1.): HWC
2.): TRICIL	2.): TRSI #00491DC	2.): CHEMCON
3.):	3.):	3.):

***** CHEMICAL CHARACTERISTICS *****

COLOR: CLEAR	ODOR: MILD	pH: N/A
PHYSICAL STATE @70F: LIQUID		SPECIFIC GRAVITY:
PERCENT VOLUME FREE LIQ.: 100	LAYERS: 1 OR 2	FLASH POINT:
BTU/LB:	ASH CONTENT:	OTHER:

METALS (CONC. IN PPM)

ARSENIC: <5	BARIUM: <10	CADMIUM: <1
CHROMIUM: <5	MERCURY: <0.2	LEAD: <5
CHROMIUM (HEX): <1	SELENIUM: <1	SILVER: <5
COPPER: <10	NICKEL: <10	ZINC: <10
THALLIUM: <1	OTHERS:	

CHEMICAL COMPOSITION	PERCENT	RQ
1.): 1,1,1 TRICHLOROETHANE	1.): >95	1.):
2.): WATER	2.): <5	2.):
3.):	3.):	3.):
4.):	4.):	4.):
5.):	5.):	5.):
6.):	6.):	6.):
7.):	7.):	7.):
8.):	8.):	8.):
9.):	9.):	9.):
10.):	10.):	10.):
11.):	11.):	11.):
12.):	12.):	12.):

LABELS REQUIRED: ORM-A

LOCATION:

PROCESS SOURCE:

MSDS (HARRIS SPEC. # 856---):

SAFETY EQUIPMENT:

SPECIAL INSTRUCTIONS:

APPROVAL/DATE

..... (ENVIRONMENTAL ENGINEERING)

..... (ANALYTICAL)

..... (MANAGEMENT)

REVISION DATE: 21 MAR 88; 29 JUN 87

BLDG 55 ACTIVITY LOG

MONTH 12/16/89

DATE	BLDG	CONDALAS		DRUMS									
		ACID	SOLV.	RES	MS	OIL	DEV	SOL	TRI	FRE	1165	4300	
SAT 16	4	1	1										
	51	1	2										
	54	1	3		1		1						
	57	-	-										
	58	-	-										
	59	1	1	1			1						
MON 18	4	2	-										
	51	2	1		1								
	54	3	1	1	1		1	1					
	57	-	-										
	58	-	-										
	59	-	-				3					1	
TUE 19	4	1	1										
	51	2	1										
	54	2	3	1	1		1						
	57	0	0										
	58	0	0										
	59	1	0				2						
WED 20	4	1	-										
	51	1	1										
	54	2	4		1		1	1					
	57	-	-										
	58	-	-										
	59	-	-				2						
THU 21	4	1	1										
	51	1	2		1		1						
	54	1	3		1		1	1					
	57	1	1										
	58	-	-										
	59	1	1	1									
FRI 22	4	1	1										
	51	1	1										
	54	2	3		1		1			1			
	57	-	-										
	58	-	-										
	59	1	1				2					1	
TOTALS		31	34	4	8		17	3	1		1	2	

ATTACHMENT IV.

DRUM SUMMARY BY BLDG - 1969

	DRUM	GAL
	31	1705
H011	0	0
H012	3	165
H013	8	440
H026	52	2860
H039	0	0
H054	17	935
H058	0	0

	DRUM	GAL
H010	31	1705
H011	96	5280
H012	0	0
H013	0	0
H026	2	110
H039	1	55
H054	4	220
H058	0	0
H006	34	1670

B54:	DRUM	GAL
H010	91	5005
H011	202	11110
H012	40	2200
H013	1	55
H039	16	880
H054	21	1155
H058	10	550
H058	1	55
H006	270	14850

B57:	DRUM	GAL
H010	0	0
H011	1	55
H012	0	0
H013	0	0
H026	0	0
H039	1	55
H054	2	110
H058	0	0

B58:	DRUM	GAL
H010	0	0
H011	0	0
H012	0	0
H013	3	165
H026	7	385
H039	0	0
H054	0	0
H058	0	0
	3	165

B59:	DRUM	GAL
H010	73	4015
H011	4	220

DRUM SUMMARY BY BLDG - 1989

H010	0	0
	2	110
H026	0	0
H039	1	55
H054	3	165
H058	63	3465
H006	666	36630

B62:	DRUM	GAL
H010	0	0
H011	0	0
H012	0	0
H013	0	0
H026	5	275
H039	0	0
H054	0	0
H058	0	0

B63:	DRUM	GAL
H010	3	165
H011	0	0
H012	0	0
H013	1	55
H026	10	550
H039	0	0
H054	0	0
	0	0

B60:	DRUM	GAL
H010	0	0
H011	0	0
H012	0	0
H013	0	0
H026	0	0
H039	0	0
H054	0	0
H058	0	0

BUILDING 54 WASTE SOLVENT TANK

H005 TOTAL GALLONS = 12180

WASTENAME	COMPONENT	DENSITY	AMOUNT	UNITS	PERCENT	GALLONS	LBS
H005 MIXED SOLVENTS	1,1,1 TRICHLOROETHANE	1.349	12180	G	0.1	12	137
	ACETONE	0.797	12180	G	33	4019	26717
	CELLOSOLVE ACETATE	0.975	12180	G	0.2	24	198
	ARCOSOLVE ACETATE	0.96	12180	G	2	244	1950
	ETHANOL	1.59	12180	G	0.4	49	646
	FREON 113	1.545	12180	G	1.6	195	2511
	ISOPROPANOL	0.785	12180	G	13	1583	10366
	METHANOL	0.791	12180	G	21.3	2594	17115
	MISC. NON-HALOGENATED SOLVENTS	0.947	12180	G	0.9	110	866
	MISC. SOLVENTS	1.18	12180	G	2	244	2397
	N-BUTYL ACETATE	0.88	12180	G	3.4	414	3039
	TOLUENE	0.866	12180	G	5	609	4398
	TRICHLOROETHYLENE	1.456	12180	G	0.3	37	444
	XYLENE	0.88	12180	G	1.3	158	1162
TOTAL						10292	71947

BUILDING 59 WASTE SOLVENT TANK

H005 TOTAL GALLONS = 55

WASTENAME	COMPONENT	DENSITY	AMOUNT	UNITS	PERCENT	GALLONS	LBS
H005 MIXED SOLVENTS	1,1,1 TRICHLOROETHANE	1.349	55 G		0.1	0	1
	ACETONE	0.797	55 G		33	13	121
	CELLOSOLVE ACETATE	0.975	55 G		0.2	0	1
	ARCOSOLVE ACETATE	0.96	55 G		2	1	9
	ETHANOL	1.59	55 G		0.4	0	3
	FREON 113	1.545	55 G		1.6	1	11
	ISOPROPANOL	0.785	55 G		13	7	47
	METHANOL	0.791	55 G		21.3	12	77
	MISC. NON-HALOGENATED SOLVENTS	0.947	55 G		0.9	0	4
	MISC. SOLVENTS	1.18	55 G		2	1	11
	N-BUTYL ACETATE	0.88	55 G		3.4	2	14
	TOLUENE	0.866	55 G		5	3	20
	TRICHLOROETHYLENE	1.456	55 G		0.3	0	2
	XYLENE	0.88	55 G		1.3	1	5
TOTAL						46	325

	DRUM	GAL
	31	1705
	0	0
H012	3	165
H013	3	440
H026	52	2860
H039	0	0
H054	17	935
H058	0	0

	WASTENAME	COMPONENT	DENSITY	AMOUNT	UNITS	PERCENT	GALLONS	LBS
H005	MIXED SOLVENTS	1,1,1 TRICHLOROETHANE	1.349	6		0.1	0	0
		ACETONE	0.797	6		33	0	0
		CELLOSOLVE ACETATE	0.975	6		0.2	0	0
		ARCOSOLVE ACETATE	0.96	6		2	0	0
		ETHANOL	1.59	6		0.4	0	0
		FREON 113	1.545	6		1.6	0	0
		ISOPROPANOL	0.785	6		13	0	0
		METHANOL	0.791	6		21.3	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.9	0	0
		MISC. SOLVENTS	1.18	6		2	0	0
		N-BUTYL ACETATE	0.88	6		3.4	0	0
		TOLUENE	0.866	6		5	0	0
		TRICHLOROETHYLENE	1.456	6		0.3	0	0
		XYLENE	0.88	6		1.3	0	0
H006	DEVELOPER	ACETONE	0.797	6		1	0	0
		MISC. SOLVENTS	1.18	6		10.4	0	0
H009	PHOTORESIST	ACETONE	0.797	1705	6	5	85	567
		CELLOSOLVE ACETATE	0.975	1705	6	55	938	7625
		METHANOL	0.791	1705	6	2.5	43	281
		MISC. SOLVENTS	1.18	1705	6	5	85	839
		N-BUTYL ACETATE	0.88	1705	6	2.5	43	313
		XYLENE	0.88	1705	6	25	426	3128
H011	MICROSTRIP	ACETONE	0.797	6		17.5	0	0
		CELLOSOLVE ACETATE	0.975	6		1.9	0	0
		CRESOL	1	6		11.5	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	6		7.5	0	0
		MISC. SOLVENTS	1.18	6		40	0	0
		XYLENE	0.88	6		1.9	0	0
H012	1,1,1 TRICHLOROETHANE	1,1,1 TRICHLOROETHANE	1.349	165	6	99.5	164	1847
H013	FREON	FREON 113	1.545	440	6	99.5	438	5641
H016	WATER W/ ETHYLENE GL	ALIPHATIC HYDROCARBONS	0.85	6		7.5	0	0
		ETHYLENE GLYCOL	1.115	6		40	0	0
H025	WATER CONTAM W/ SOLVENTS	ACETONE	0.797	6		1	0	0
		CELLOSOLVE ACETATE	0.975	6		1.5	0	0
		ISOPROPANOL	0.785	6		14	0	0
		METHANOL	0.791	6		0.1	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.5	0	0
		MISC. SOLVENTS	1.18	6		4.2	0	0
H026	MIXED SOLVENTS	ACETONE	0.797	2860	6	14.4	412	2737
		ARCOSOLVE ACETATE	0.96	2860	6	1	29	229
		CELLOSOLVE ACETATE	0.975	2860	6	34.2	978	7954
		ETHANOL	1.59	2860	6	3.5	100	1327
		FREON 113	1.545	2860	6	9	257	3317
		ISOPROPANOL	0.785	2860	6	17.8	509	3533

		METHANOL	0.791	2860	G	5.8	166	1094
		MISC. SOLVENTS	1.18	2860	G	2	57	563
		N-BUTYL ACETATE	0.88	2860	G	1.5	43	315
		XYLENE	0.88	2860	G	47.5	1359	9970
H039	1165 STRIPPER	METHYL-2-PYRROLIDONE	1.027		G	73.8	0	0
		MISC. SOLVENTS	1.18		G	5	0	0
H040	MARKEM YXX	ETHANOL	1.59		G	1	0	0
		MISC. SOLVENTS	1.18		G	59	0	0
H043	WATER W/ MICROSTRIP	ACETONE	0.797		G	0.9	0	0
		CELLOSOLVE ACETATE	0.975		G	0.9	0	0
		CRESOL	1		G	0.9	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947		G	0.9	0	0
		MISC. SOLVENTS	1.18		G	0.9	0	0
		XYLENE	0.88		G	0.9	0	0
H045	RESIST BAGS	CELLOSOLVE ACETATE	0.975		G	62	0	0
		HEXAMETHYLDISILAZANE	0.77		G	4.9	0	0
		N-BUTYL ACETATE	0.88		G	6	0	0
		XYLENE	0.88		G	6	0	0
H054	WASTE OIL	1,1,1 TRICHLOROETHANE	1.349	935	G	1	9	105
H058	AZ-300	1,2-PROPYLENE GLYCOL	1.03		G	30	0	0
		METHYL-2-PYRROLIDONE	1.027		G	30	0	0
H063	AZ 1500	PROPYLENE GLYCOL MONOMETHYL ETHER A	0.96		G	100	0	0
H064	WAVE SOLDER FLUX	ISOPROPANOL	0.785		G	20	0	0
		ETHANOL	1.59		G	10	0	0
		MISC. SOLVENTS	1.18		G	5	0	0
H069	WATER/ETHYLENE GLYCOL (NON-HAZ)	ETHYLENE GLYCOL	1.115		G	50	0	0
						TOTAL	6141	51186

DRUMMED WASTE --BUILDING 51

	DRUM	GAL
H010	31	1705
H011	96	5280
H012	0	0
H013	0	0
H026	2	110
H039	1	55
H054	4	220
H058	0	0
H006	34	1870

	WASTENAME	COMPONENT	DENSITY	AMOUNT	UNITS	PERCENT	GALLONS	LBS
H005	MIXED SOLVENTS	1,1,1 TRICHLOROETHANE	1.349	6		0.1	0	0
		ACETONE	0.797	6		33	0	0
		CELLOSOLVE ACETATE	0.975	6		0.2	0	0
		ARCSOLVE ACETATE	0.96	6		2	0	0
		ETHANOL	1.59	6		0.4	0	0
		FREON 113	1.545	6		1.6	0	0
		ISOPROPANOL	0.785	6		13	0	0
		METHANOL	0.791	6		21.3	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.9	0	0
		MISC. SOLVENTS	1.18	6		2	0	0
		N-BUTYL ACETATE	0.88	6		3.4	0	0
		TOLUENE	0.866	6		5	0	0
		TRICHLOROETHYLENE	1.456	6		0.3	0	0
		XYLENE	0.88	6		1.3	0	0
H006	DEVELOPER	ACETONE	0.797	1870	6	1	19	124
		MISC. SOLVENTS	1.18	1870	6	10.4	194	1914
H010	PHOTORESIST	ACETONE	0.797	1705	6	5	85	567
		CELLOSOLVE ACETATE	0.975	1705	6	55	938	7625
		METHANOL	0.791	1705	6	2.5	43	281
		MISC. SOLVENTS	1.18	1705	6	5	85	839
		N-BUTYL ACETATE	0.88	1705	6	2.5	43	313
		XYLENE	0.88	1705	6	25	426	3128
H011	MICROSTRIP	ACETONE	0.797	5280	6	17.5	924	6142
		CELLOSOLVE ACETATE	0.975	5280	6	1.9	100	816
		CREOSOL	1	5280	6	11.5	607	5064
		MISC. NON-HALOGENATED SOLVENTS	0.947	5280	6	7.5	396	3128
		MISC. SOLVENTS	1.18	5280	6	40	2112	20785
		XYLENE	0.88	5280	6	1.9	100	736
H012	1,1,1 TRICHLOROETHANE	1,1,1 TRICHLOROETHANE	1.349	6		99.5	0	0
H013	FREON	FREON 113	1.545	6		99.5	0	0
H016	WATER W/ ETHYLENE GL	ALIPHATIC HYDROCARBONS	0.85	6		7.5	0	0
		ETHYLENE GLYCOL	1.115	6		40	0	0
H025	WATER CONTAM W/ SOLVENTS	ACETONE	0.797	6		1	0	0
		CELLOSOLVE ACETATE	0.975	6		1.5	0	0
		ISOPROPANOL	0.785	6		14	0	0
		METHANOL	0.791	6		0.1	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.5	0	0
		MISC. SOLVENTS	1.18	6		4.2	0	0
	MIXED SOLVENTS	ACETONE	0.797	110	6	14.4	16	105
		ARCSOLVE ACETATE	0.96	110	6	1	1	9
		CELLOSOLVE ACETATE	0.975	110	6	34.2	38	306

		ETHANOL	1.59	110	6	3.5	4	51
		FREON 113	1.545	110	6	9	10	128
		ISOPROPANOL	0.785	110	5	17.8	20	128
		METHANOL	0.791	110	6	5.8	6	42
		MISC. SOLVENTS	1.18	110	6	2	2	22
		N-BUTYL ACETATE	0.88	110	6	1.5	2	12
		XYLENE	0.88	110	6	47.5	52	383
H039	1165 STRIPPER	METHYL-2-PYRROLIDONE	1.027	55	6	73.8	41	348
		MISC. SOLVENTS	1.18	55	6	5	3	27
H040	MARKER XXX	ETHANOL	1.59	6		1	0	0
		MISC. SOLVENTS	1.18	6		99	0	0
H043	WATER W/ MICROSTRIP	ACETONE	0.797	5		0.9	0	0
		CELLOSOLVE ACETATE	0.975	6		0.9	0	0
		CRESOL	1	6		0.9	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.9	0	0
		MISC. SOLVENTS	1.18	6		0.9	0	0
		XYLENE	0.88	6		0.9	0	0
H045	RESIST BAGS	CELLOSOLVE ACETATE	0.975	6		62	0	0
		HEXAMETHYLDISILAZANE	0.77	6		4.9	0	0
		N-BUTYL ACETATE	0.88	6		6	0	0
		XYLENE	0.88	6		6	0	0
H054	WASTE OIL	1,1,1 TRICHLOROETHANE	1.349	220	6	1	2	25
H058	AZ-300	1,2-PROPYLENE GLYCOL	1.03	5		30	0	0
		METHYL-2-PYRROLIDONE	1.027	6		30	0	0
H063	AZ 1500	PROPYLENE GLYCOL MONOMETHYL ETHER A	0.96	6		100	0	0
H064	WAVE SOLDER FLUX	ISOPROPANOL	0.785	6		20	0	0
		ETHANOL	1.59	6		10	0	0
		MISC. SOLVENTS	1.18	6		5	0	0
H067	WATER/ETHYLENE GLYCOL (NON-HAZ)	ETHYLENE GLYCOL	1.115	6		50	0	0

TOTAL 6269 53047

BUILDING 54 - DRUM SUMMARY 1989

	DRUM	GAL
H010	91	5005
H011	202	11110
H012	40	2200
H013	1	55
H026	16	880
H039	21	1155
H054	10	550
H058	1	55
H006	270	14850

	WASTE NAME	COMPONENT	DENSITY	AMOUNT	UNITS	PERCENT	GALLONS	LBS
H005	MIXED SOLVENTS	1,1,1 TRICHLOROETHANE	1.349	6		0.1	0	0
		ACETONE	0.797	6		33	0	0
		CELLOSOLVE ACETATE	0.975	6		0.2	0	0
		ARCOSOLVE ACETATE	0.96	6		2	0	0
		ETHANOL	1.59	6		0.4	0	0
		FREDN 113	1.545	6		1.6	0	0
		ISOPROPANOL	0.785	6		13	0	0
		METHANOL	0.791	6		21.3	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.9	0	0
		MISC. SOLVENTS	1.18	6		2	0	0
		N-BUTYL ACETATE	0.88	6		3.4	0	0
		TOLUENE	0.866	6		5	0	0
		TRICHLOROETHYLENE	1.456	6		0.3	0	0
XYLENE	0.88	6		1.3	0	0		
H006	DEVELOPER	ACETONE	0.797	14850	6	1	149	987
		MISC. SOLVENTS	1.18	14850	6	10.4	1544	15199
H010	PHOTORESIST	ACETONE	0.797	5005	6	5	250	1663
		CELLOSOLVE ACETATE	0.975	5005	6	55	2753	22384
		METHANOL	0.791	5005	6	2.5	125	825
		MISC. SOLVENTS	1.18	5005	6	5	250	2463
		N-BUTYL ACETATE	0.88	5005	6	2.5	125	918
		XYLENE	0.88	5005	6	25	1251	9183
H011	MICROSTRIP	ACETONE	0.797	11110	6	17.5	1944	12923
		CELLOSOLVE ACETATE	0.975	11110	6	1.9	211	1716
		CRESOL	1	11110	6	11.5	1278	10656
		MISC. NON-HALOGENATED SOLVENTS	0.947	11110	6	7.5	833	6581
		MISC. SOLVENTS	1.18	11110	6	40	4444	43734
		XYLENE	0.88	11110	6	1.9	211	1549
H012	1,1,1 TRICHLOROETHANE	1,1,1 TRICHLOROETHANE	1.349	2200	6	97.5	2189	24628
H013	FREDN	FREDN 113	1.545	55	6	99.5	55	705
H016	WATER W/ ETHYLENE GL	ALIPHATIC HYDROCARBONS	0.85	6		7.5	0	0
		ETHYLENE GLYCOL	1.115	6		40	0	0
H025	WATER CONTAM W/ SOLVENTS	ACETONE	0.797	6		1	0	0
		CELLOSOLVE ACETATE	0.975	6		1.5	0	0
		ISOPROPANOL	0.785	6		14	0	0
		METHANOL	0.791	6		0.1	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.5	0	0
		MISC. SOLVENTS	1.18	6		4.2	0	0
	MIXED SOLVENTS	ACETONE	0.797	880	6	14.4	127	842
		ARCOSOLVE ACETATE	0.96	880	6	1	9	70
		CELLOSOLVE ACETATE	0.975	880	6	34.2	301	2447

		ETHANOL	1.59	880 G	3.5	31	408
		FREON 113	1.545	880 G	9	79	1021
		ISOPROPANOL	0.785	880 G	17.8	157	1026
		METHANOL	0.791	880 G	5.8	51	337
		MISC. SOLVENTS	1.18	880 G	2	18	173
		N-BUTYL ACETATE	0.38	880 G	1.5	13	97
		XYLENE	0.88	880 G	47.5	418	3068
H039	1133 STRIPPER	METHYL-2-PYRROLIDONE	1.027	1155 G	73.8	852	7301
		MISC. SOLVENTS	1.18	1155 G	5	58	568
H040	MARKER XXX	ETHANOL	1.59	G	1	0	0
		MISC. SOLVENTS	1.18	G	99	0	0
H043	WATER W/ MICROSTRIP	ACETONE	0.797	G	0.9	0	0
		CELLOSOLVE ACETATE	0.975	G	0.9	0	0
		CRESOL	1	G	0.9	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	G	0.9	0	0
		MISC. SOLVENTS	1.18	G	0.9	0	0
		XYLENE	0.88	G	0.9	0	0
H045	RESIST BAGS	CELLOSOLVE ACETATE	0.975	G	62	0	0
		HEXAMETHYLDISILAZANE	0.77	G	4.9	0	0
		N-BUTYL ACETATE	0.88	G	6	0	0
		XYLENE	0.88	G	6	0	0
H054	WASTE OIL	1,1,1 TRICHLOROETHANE	1.349	550 G	1	6	62
H058	AZ-300	1,2-PROPYLENE GLYCOL	1.03	55 G	30	17	142
		METHYL-2-PYRROLIDONE	1.027	55 G	30	17	141
H063	AZ 1500	PROPYLENE GLYCOL MONOMETHYL ETHER A	0.96	G	100	0	0
H064	WAVE SOLDER FLUX	ISOPROPANOL	0.785	G	20	0	0
		ETHANOL	1.59	G	10	0	0
		MISC. SOLVENTS	1.18	G	5	0	0
H067	WATER/ETHYLENE GLYCOL (NON-HAZ)	ETHYLENE GLYCOL	1.115	G	50	0	0

TOTAL 19764 173819

BUILDING 57 - DRUM SUMMARY 1989

957:	DRUM	GAL
H010	0	0
H011	1	55
H012	0	0
H013	0	0
H026	0	0
H039	1	55
H054	2	110
H058	0	0

WASTENAME	COMPONENT	DENSITY	AMOUNT	UNITS	PERCENT	GALLONS	LBS
H005 MIXED SOLVENTS	1,1,1 TRICHLOROETHANE	1.349	6		0.1	0	0
	ACETONE	0.797	6		33	0	0
	CELLOSOLVE ACETATE	0.975	6		0.2	0	0
	ARCOSOLVE ACETATE	0.96	6		2	0	0
	ETHANOL	1.59	6		0.4	0	0
	FREON 113	1.545	6		1.6	0	0
	ISOPROPANOL	0.785	6		13	0	0
	METHANOL	0.791	6		21.3	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.9	0	0
	MISC. SOLVENTS	1.18	6		2	0	0
	N-BUTYL ACETATE	0.88	6		3.4	0	0
	TOLUENE	0.866	6		5	0	0
	TRICHLOROETHYLENE	1.456	6		0.3	0	0
	XYLENE	0.88	6		1.3	0	0
H006 DEVELOPER	ACETONE	0.797	0.5		1	0	0
	MISC. SOLVENTS	1.18	0.6		10.4	0	0
H010 PHOTORESIST	ACETONE	0.797	6		5	0	0
	CELLOSOLVE ACETATE	0.975	0.6		55	0	0
	METHANOL	0.791	0.6		2.5	0	0
	MISC. SOLVENTS	1.18	0.6		5	0	0
	N-BUTYL ACETATE	0.88	0.6		2.5	0	0
	XYLENE	0.88	0.6		25	0	0
H011 MICROSTRIP	ACETONE	0.797	55.6		17.5	10	64
	CELLOSOLVE ACETATE	0.975	55.6		1.9	1	6
	CRESOL	1	55.6		11.5	6	53
	MISC. NON-HALOGENATED SOLVENTS	0.947	55.6		7.5	4	33
	MISC. SOLVENTS	1.18	55.6		40	22	217
	XYLENE	0.88	55.6		1.9	1	8
H012 1,1,1 TRICHLOROETHANE	1,1,1 TRICHLOROETHANE	1.349	0.6		99.5	0	0
H013 FREON	FREON 113	1.545	0.6		99.5	0	0
H016 WATER W/ ETHYLENE GL	ALIPHATIC HYDROCARBONS	0.85	6		7.5	0	0
	ETHYLENE GLYCOL	1.115	6		40	0	0
H025 WATER CONTAIN W/ SOLVENTS	ACETONE	0.797	6		1	0	0
	CELLOSOLVE ACETATE	0.975	6		1.5	0	0
	ISOPROPANOL	0.785	6		14	0	0
	METHANOL	0.791	6		0.1	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.5	0	0
	MISC. SOLVENTS	1.18	6		4.2	0	0
H026 MIXED SOLVENTS	ACETONE	0.797	0.6		14.4	0	9
	ARCOSOLVE ACETATE	0.96	0.6		1	0	0
	CELLOSOLVE ACETATE	0.975	0.6		34.2	0	0

		ETHANOL	1.59	0 G	3.5	0	0
		FREON 113	1.545	0 G	9	0	0
		ISOPROPANOL	0.785	0 G	17.8	0	0
		METHANOL	0.791	0 G	5.8	0	0
		MISC. SOLVENTS	1.18	0 G	2	0	0
		N-BUTYL ACETATE	0.68	0 G	1.5	0	0
		XYLENE	0.88	0 G	47.5	0	0
H039	1165 STRIPPER	METHYL-2-PYRROLIDONE	1.027	55 G	73.8	41	348
		MISC. SOLVENTS	1.18	55 G	5	3	27
H040	MARKEM XXX	ETHANOL	1.59	G	1	0	0
		MISC. SOLVENTS	1.18	G	99	0	0
H043	WATER W/ MICROSTRIP	ACETONE	0.797	G	0.9	0	0
		CELLOSOLVE ACETATE	0.975	G	0.9	0	0
		CRESOL	1	G	0.9	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	G	0.9	0	0
		MISC. SOLVENTS	1.18	G	0.9	0	0
		XYLENE	0.88	G	0.9	0	0
H045	RESIST BAGS	CELLOSOLVE ACETATE	0.975	G	62	0	0
		HEXAMETHYLDISILAZANE	0.77	G	4.9	0	0
		N-BUTYL ACETATE	0.88	G	6	0	0
		XYLENE	0.88	G	6	0	0
H054	WASTE OIL	1,1,1 TRICHLOROETHANE	1.349	110 G	1	1	12
	AZ-300	1,2-PROPYLENE GLYCOL	1.03	0 G	30	0	0
		METHYL-2-PYRROLIDONE	1.027	0 G	30	0	0
H053	AZ 1500	PROPYLENE GLYCOL MONOMETHYL ETHER A	0.96	G	100	0	0
H064	WAVE SOLDER FLUX	ISOPROPANOL	0.785	G	20	0	0
		ETHANOL	1.59	G	10	0	0
		MISC. SOLVENTS	1.18	G	5	0	0
H069	WATER/ETHYLENE GLYCOL (NON-HAZ)	ETHYLENE GLYCOL	1.115	G	50	0	0
					TOTAL	89	769

BUILDING 58 - DRUM SUMMARY 1989

BBB:	DRUM	GAL
H010	0	0
H011	0	0
H012	0	0
H013	3	165
H026	7	385
H039	0	0
H054	0	0
H058	0	0
H006	3	165

WASTENAME	COMPONENT	DENSITY	AMOUNT	UNITS	PERCENT	GALLONS	LBS
H005 MIXED SOLVENTS	1,1,1 TRICHLOROETHANE	1.349	6		0.1	0	0
	ACETONE	0.797	6		33	0	0
	CELLOSOLVE ACETATE	0.975	6		0.2	0	0
	ARCOSOLVE ACETATE	0.96	6		2	0	0
	ETHANOL	1.59	6		0.4	0	0
	FREON 113	1.545	6		1.6	0	0
	ISOPROPANOL	0.785	6		13	0	0
	METHANOL	0.791	6		21.3	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.9	0	0
	MISC. SOLVENTS	1.18	6		2	0	0
	N-BUTYL ACETATE	0.88	6		3.4	0	0
	TOLUENE	0.866	6		5	0	0
	TRICHLOROETHYLENE	1.456	6		0.3	0	0
	XYLENE	0.88	6		1.3	0	0
H006 DEVELOPER	ACETONE	0.797	165	6	1	2	11
	MISC. SOLVENTS	1.18	165	6	10.4	17	169
H010 PHOTORESIST	ACETONE	0.797	6		5	0	0
	CELLOSOLVE ACETATE	0.975	6		55	0	0
	METHANOL	0.791	6		2.5	0	0
	MISC. SOLVENTS	1.18	6		5	0	0
	N-BUTYL ACETATE	0.88	6		2.5	0	0
H011 MICROSTRIP	XYLENE	0.88	6		25	0	0
	ACETONE	0.797	6		17.5	0	0
	CELLOSOLVE ACETATE	0.975	6		1.9	0	0
	CRESOL	1	6		11.5	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	6		7.5	0	0
	MISC. SOLVENTS	1.18	6		40	0	0
H012 1,1,1 TRICHLOROETHANE	1,1,1 TRICHLOROETHANE	1.349	6		99.5	0	0
	FREON 113	1.545	165	6	99.5	164	2115
H013 H016 WATER W/ ETHYLENE GL	ALIPHATIC HYDROCARBONS	0.85	6		7.5	0	0
	ETHYLENE GLYCOL	1.115	6		40	0	0
H025 WATER CONTAM W/ SOLVENTS	ACETONE	0.797	6		1	0	0
	CELLOSOLVE ACETATE	0.975	6		1.5	0	0
	ISOPROPANOL	0.785	6		14	0	0
	METHANOL	0.791	6		0.1	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.5	0	0
	MISC. SOLVENTS	1.18	6		4.2	0	0
H026 MIXED SOLVENTS	ACETONE	0.797	385	6	14.4	55	369
	ARCOSOLVE ACETATE	0.96	385	6	1	4	31
	CELLOSOLVE ACETATE	0.975	385	6	34.2	132	1071

		ETHANOL	1.59	385 6	3.5	13	179
		FREON 113	1.545	385 6	9	35	446
		ISOPROPANOL	0.785	385 6	17.8	69	449
		METHANOL	0.791	385 6	5.8	22	147
		MISC. SOLVENTS	1.18	385 6	2	8	76
		N-BUTYL ACETATE	0.88	385 6	1.5	6	42
		XYLENE	0.88	385 6	47.5	183	1342
H039	1165 STRIPPER	METHYL-2-PYRROLIDONE	1.027	0 6	73.8	0	0
		MISC. SOLVENTS	1.18	0 6	5	0	0
H040	MARKEN XXX	ETHANOL	1.59	6	1	0	0
		MISC. SOLVENTS	1.18	6	99	0	0
H043	WATER W/ MICROSTRIP	ACETONE	0.797	6	0.9	0	0
		CELLOSOLVE ACETATE	0.975	6	0.9	0	0
		CRESOL	1	6	0.9	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	6	0.9	0	0
		MISC. SOLVENTS	1.18	6	0.9	0	0
		XYLENE	0.88	6	0.9	0	0
H045	RESIST BAGS	CELLOSOLVE ACETATE	0.975	6	62	0	0
		HEXAMETHYLDISILAZANE	0.77	6	4.9	0	0
		N-BUTYL ACETATE	0.88	6	6	0	0
		XYLENE	0.88	6	6	0	0
H054	WASTE OIL	1,1,1 TRICHLOROETHANE	1.349	0 6	1	0	0
H055	AZ-300	1,2-PROPYLENE GLYCOL	1.03	0 6	30	0	0
		METHYL-2-PYRROLIDONE	1.027	0 6	30	0	0
H063	AZ 1500	PROPYLENE GLYCOL MONOMETHYL ETHER A	0.96	6	100	0	0
H064	WAVE SOLDER FLUX	ISOPROPANOL	0.785	6	20	0	0
		ETHANOL	1.59	6	10	0	0
		MISC. SOLVENTS	1.18	6	5	0	0
H069	WATER/ETHYLENE GLYCOL (NON-HAZ)	ETHYLENE GLYCOL	1.115	6	50	0	0
					TOTAL	709	6447

BUILDING 39 - DRUM SUMMARY 1989

DRUM	GAL
B59:	
H010	73 4015
H011	4 220
H012	0 0
H013	2 110
H026	0 0
H039	1 55
H054	3 165
H058	63 3465
H006	666 36630

WASTENAME	COMPONENT	DENSITY	AMOUNT	UNITS	PERCENT	GALLONS	LBS
H005 MIXED SOLVENTS	1,1,1 TRICHLOROETHANE	1.349	6		0.1	0	0
	ACETONE	0.797	6		33	0	0
	CELLOSOLVE ACETATE	0.975	6		0.2	0	0
	ARCOSOLVE ACETATE	0.96	6		2	0	0
	ETHANOL	1.59	6		0.4	0	0
	FREON 113	1.545	6		1.6	0	0
	ISOPROPANOL	0.785	6		13	0	0
	METHANOL	0.791	6		21.3	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.9	0	0
	MISC. SOLVENTS	1.18	6		2	0	0
	N-BUTYL ACETATE	0.88	6		3.4	0	0
	TOLUENE	0.866	6		5	0	0
	TRICHLOROETHYLENE	1.456	6		0.3	0	0
	XYLENE	0.88	6		1.3	0	0
H006 DEVELOPER	ACETONE	0.797	36630	6	1	366	2435
	MISC. SOLVENTS	1.18	36630	6	10.4	3810	37490
H010 PHOTORESIST	ACETONE	0.797	4015	6	5	201	1334
	CELLOSOLVE ACETATE	0.975	4015	6	55	2208	17956
	METHANOL	0.791	4015	6	2.5	100	662
	MISC. SOLVENTS	1.18	4015	6	5	201	1976
	N-BUTYL ACETATE	0.88	4015	6	2.5	100	737
	XYLENE	0.88	4015	6	25	1004	7367
H011 MICROSTRIP	ACETONE	0.797	220	6	17.5	39	256
	CELLOSOLVE ACETATE	0.975	220	6	1.9	4	34
	CRESOL	1	220	6	11.5	25	211
	MISC. NON-HALOGENATED SOLVENTS	0.947	220	6	7.5	17	130
	MISC. SOLVENTS	1.18	220	6	40	88	866
	XYLENE	0.88	220	6	1.9	4	31
H012 1,1,1 TRICHLOROETHANE	1,1,1 TRICHLOROETHANE	1.349	0	6	99.5	0	0
H013 FREON	FREON 113	1.545	110	6	99.5	109	1410
H016 WATER W/ ETHYLENE GL	ALIPHATIC HYDROCARBONS	0.85	6		7.5	0	0
	ETHYLENE GLYCOL	1.115	6		40	0	0
H025 WATER CONTAM W/ SOLVENTS	ACETONE	0.797	6		1	0	0
	CELLOSOLVE ACETATE	0.975	6		1.5	0	0
	ISOPROPANOL	0.785	6		14	0	0
	METHANOL	0.791	6		0.1	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.5	0	0
	MISC. SOLVENTS	1.18	6		4.2	0	0
H026 MIXED SOLVENTS	ACETONE	0.797	0	6	14.4	0	0
	ARCOSOLVE ACETATE	0.96	0	6	1	0	0
	CELLOSOLVE ACETATE	0.975	0	6	34.2	0	0

		ETHANOL	1.59	0 G	3.5	0	0
		FREON 113	1.545	0 G	9	0	0
		ISOPROPANOL	0.785	0 G	17.8	0	0
		METHANOL	0.791	0 G	5.8	0	0
		MISC. SOLVENTS	1.18	0 G	2	0	0
		N-BUTYL ACETATE	0.88	0 G	1.5	0	0
		XYLENE	0.88	0 G	47.5	0	0
H039	1165 STRIPPER	METHYL-2-PYRROLIDONE	1.027	55 G	73.8	41	348
		MISC. SOLVENTS	1.18	55 G	5	3	27
H040	MARKEM XXX	ETHANOL	1.59	G	1	0	0
		MISC. SOLVENTS	1.18	G	99	0	0
H043	WATER W/ MICROSTRIP	ACETONE	0.797	G	0.9	0	0
		CELLOSOLVE ACETATE	0.975	G	0.9	0	0
		CRESOL	1	G	0.9	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	G	0.9	0	0
		MISC. SOLVENTS	1.18	G	0.9	0	0
		XYLENE	0.88	G	0.9	0	0
H045	RESIST BAGS	CELLOSOLVE ACETATE	0.975	G	62	0	0
		HEXAMETHYLDISILAZANE	0.77	G	4.9	0	0
		N-BUTYL ACETATE	0.88	G	6	0	0
		XYLENE	0.88	G	6	0	0
H054	WASTE OIL	1,1,1 TRICHLOROETHANE	1.349	165 G	1	2	19
H058	AZ-300	1,2-PROPYLENE GLYCOL	1.03	3465 G	30	1040	8930
		METHYL-2-PYRROLIDONE	1.027	3465 G	30	1040	8904
H055	AZ 1500	PROPYLENE GLYCOL MONOMETHYL ETHER A	0.96	G	100	0	0
H064	WAVE SOLDER FLUX	ISOPROPANOL	0.785	G	20	0	0
		ETHANOL	1.59	G	10	0	0
		MISC. SOLVENTS	1.18	G	5	0	0
H069	WATER/ETHYLENE GLYCOL (NON-HAZ)	ETHYLENE GLYCOL	1.115	G	50	0	0
					TOTAL	10400	91122

BUILDING 62 - DRUM SUMMARY 1989

B&E:	DRUM	GAL
H010	0	0
H011	0	0
H012	0	0
H013	0	0
H026	5	275
H039	0	0
H054	0	0
H059	0	0

WASTENAME	COMPONENT	DENSITY	AMOUNT	UNITS	PERCENT	GALLONS	LB
H005 MIXED SOLVENTS	1,1,1 TRICHLOROETHANE	1.349	6		0.1	0	0
	ACETONE	0.797	6		33	0	0
	CELLOSOLVE ACETATE	0.975	6		0.2	0	0
	ARCOSOLVE ACETATE	0.96	6		2	0	0
	ETHANOL	1.59	6		0.4	0	0
	FREON 113	1.545	6		1.6	0	0
	ISOPROPANOL	0.785	6		13	0	0
	METHANOL	0.791	6		21.3	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.9	0	0
	MISC. SOLVENTS	1.18	6		2	0	0
	N-BUTYL ACETATE	0.88	6		3.4	0	0
	TOLUENE	0.866	6		5	0	0
	TRICHLOROETHYLENE	1.456	6		0.3	0	0
	XYLENE	0.88	6		1.3	0	0
	H006 DEVELOPER	ACETONE	0.797	0.5		1	0
MISC. SOLVENTS		1.18	0.6		10.4	0	0
H010 PHOTORESIST	ACETONE	0.797	0.6		5	0	0
	CELLOSOLVE ACETATE	0.975	0.6		53	0	0
	METHANOL	0.791	0.6		2.5	0	0
	MISC. SOLVENTS	1.18	0.5		5	0	0
	N-BUTYL ACETATE	0.88	0.6		2.5	0	0
H011 MICROSTRIP	XYLENE	0.88	0.6		25	0	0
	ACETONE	0.797	0.6		17.5	0	0
	CELLOSOLVE ACETATE	0.975	0.6		1.9	0	0
	CRESOL	1	0.6		11.5	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	0.6		7.5	0	0
H012 1,1,1 TRICHLOROETHANE	MISC. SOLVENTS	1.18	0.6		40	0	0
	XYLENE	0.88	0.6		1.9	0	0
	ACETONE	0.797	0.6		99.5	0	0
	1,1,1 TRICHLOROETHANE	1.349	0.6		99.5	0	0
H013 FREON	FREON 113	1.545	0.6		99.5	0	0
H016 WATER W/ ETHYLENE GL	ALIPHATIC HYDROCARBONS	0.85	6		7.5	0	0
	ETHYLENE GLYCOL	1.115	6		40	0	0
H025 WATER CONTAM W/ SOLVENTS	ACETONE	0.797	6		1	0	0
	CELLOSOLVE ACETATE	0.975	6		1.5	0	0
	ISOPROPANOL	0.785	6		14	0	0
	METHANOL	0.791	6		0.1	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.5	0	0
	MISC. SOLVENTS	1.18	6		4.2	0	0
	XYLENE	0.88	6		14.4	40	263
H026 MIXED SOLVENTS	ACETONE	0.797	275	6	14.4	40	263
	ARCOSOLVE ACETATE	0.96	275	6	1	3	22
	CELLOSOLVE ACETATE	0.975	275	6	34.2	94	765

		ETHANOL	1.59	275 G	3.5	10	128
		FREDN 113	1.545	275 G	9	25	319
		ISOPROPANOL	0.785	275 G	17.8	49	320
		METHANOL	0.791	275 G	5.3	16	105
		MISC. SOLVENTS	1.18	275 G	2	6	54
		N-BUTYL ACETATE	0.88	275 G	1.5	4	30
		XYLENE	0.88	275 G	47.5	131	959
H039	1165 STRIPPER	METHYL-2-PYRROLIDONE	1.027	0 G	73.8	0	0
		MISC. SOLVENTS	1.18	0 G	5	0	0
H040	MARKEY XXX	ETHANOL	1.59	G	1	0	0
		MISC. SOLVENTS	1.18	G	99	0	0
H043	WATER W/ MICROSTRIP	ACETONE	0.757	G	0.9	0	0
		CELLOSOLVE ACETATE	0.975	G	0.9	0	0
		CRESOL	1	G	0.9	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	G	0.9	0	0
		MISC. SOLVENTS	1.18	G	0.9	0	0
		XYLENE	0.88	G	0.9	0	0
H045	RESIST BAGS	CELLOSOLVE ACETATE	0.975	G	62	0	0
		HEXAMETHYLDISILAZANE	0.77	G	4.9	0	0
		N-BUTYL ACETATE	0.88	G	6	0	0
		XYLENE	0.88	G	6	0	0
H054	WASTE OIL	1,1,1 TRICHLOROETHANE	1.349	0 G	1	0	0
H058	AZ-300	1,2-PROPYLENE GLYCOL	1.03	0 G	30	0	0
		METHYL-2-PYRROLIDONE	1.027	0 G	30	0	0
H063	AZ 1500	PROPYLENE GLYCOL MONOMETHYL ETHER A	0.96	G	100	0	0
H064	WAVE SOLDER FLUX	ISOPROPANOL	0.785	G	20	0	0
		ETHANOL	1.59	G	10	0	0
		MISC. SOLVENTS	1.18	G	5	0	0
H069	WATER/ETHYLENE GLYCOL (NON-HAZ)	ETHYLENE GLYCOL	1.115	G	50	0	0
					TOTAL	376	2965

BUILDING 53 - DRUM SUMMARY 1989

563:	DRUM	GAL
H010	3	165
H011	0	0
H012	0	0
H013	1	55
H026	10	550
H039	0	0
H054	0	0
H058	0	0

WASTENAME	COMPONENT	DENSITY	AMOUNT	UNITS	PERCENT	GALLONS	LBS
H005 MIXED SOLVENTS	1,1,1 TRICHLOROETHANE	1.349	6		0.1	0	0
	ACETONE	0.797	6		33	0	0
	CELLOSOLVE ACETATE	0.975	6		0.2	0	0
	ARCOSOLVE ACETATE	0.96	6		2	0	0
	ETHANOL	1.59	6		0.4	0	0
	FREON 113	1.545	6		1.6	0	0
	ISOPROPANOL	0.785	6		13	0	0
	METHANOL	0.791	6		21.3	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.9	0	0
	MISC. SOLVENTS	1.18	6		2	0	0
	N-BUTYL ACETATE	0.88	6		3.4	0	0
	TOLUENE	0.866	6		5	0	0
	TRICHLOROETHYLENE	1.456	6		0.3	0	0
	XYLENE	0.88	6		1.3	0	0
H006 DEVELOPER	ACETONE	0.797	0 6		1	0	0
	MISC. SOLVENTS	1.18	0 6		10.4	0	0
H010 PHOTORESIST	ACETONE	0.797	165 6		5	8	55
	CELLOSOLVE ACETATE	0.975	165 6		55	91	738
	METHANOL	0.791	165 6		2.5	4	27
	MISC. SOLVENTS	1.18	165 6		5	8	81
	N-BUTYL ACETATE	0.88	165 6		2.5	4	30
H011 MICROSTRIP	XYLENE	0.88	165 6		25	41	303
	ACETONE	0.797	0 6		17.5	0	0
	CELLOSOLVE ACETATE	0.975	0 6		1.9	0	0
	CRESOL	1	0 6		11.5	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	0 6		7.5	0	0
	MISC. SOLVENTS	1.18	0 6		40	0	0
H012 1,1,1 TRICHLOROETHANE	XYLENE	0.88	0 6		1.9	0	0
	1,1,1 TRICHLOROETHANE	1.349	0 6		99.5	0	0
H013 FREON	FREON 113	1.545	55 6		99.5	55	705
H016 WATER W/ ETHYLENE GL	ALIPHATIC HYDROCARBONS	0.85	6		7.5	0	0
	ETHYLENE GLYCOL	1.115	6		40	0	0
H025 WATER CONTAM W/ SOLVENTS	ACETONE	0.797	6		1	0	0
	CELLOSOLVE ACETATE	0.975	6		1.5	0	0
	ISOPROPANOL	0.785	6		14	0	0
	METHANOL	0.791	6		0.1	0	0
	MISC. NON-HALOGENATED SOLVENTS	0.947	6		0.5	0	0
	MISC. SOLVENTS	1.18	6		4.2	0	0
	XYLENE	0.88	6		1.9	0	0
H026 MIXED SOLVENTS	ACETONE	0.797	550 6		14.4	79	526
	ARCOSOLVE ACETATE	0.96	550 6		1	6	44
	CELLOSOLVE ACETATE	0.975	550 6		34.2	188	1530

		ETHANOL	1.59	550 G	3.5	19	255
		FREON 113	1.545	550 G	9	50	538
		ISOPROPANOL	0.785	350 G	17.8	98	641
		METHANOL	0.791	550 G	5.8	32	210
		MISC. SOLVENTS	1.18	550 G	2	11	108
		N-BUTYL ACETATE	0.88	550 G	1.5	8	61
		XYLENE	0.88	550 G	47.5	261	1917
H039	1165 STRIPPER	METHYL-2-PYRROLIDONE	1.027	0 G	73.8	0	0
		MISC. SOLVENTS	1.18	0 G	5	0	0
H040	MARKEM XXX	ETHANOL	1.59	G	1	0	0
		MISC. SOLVENTS	1.18	G	99	0	0
H043	WATER W/ MICROSTRIP	ACETONE	0.797	G	0.9	0	0
		CELLOSOLVE ACETATE	0.975	G	0.9	0	0
		CRESOL	1	G	0.9	0	0
		MISC. NON-HALOGENATED SOLVENTS	0.947	G	0.9	0	0
		MISC. SOLVENTS	1.18	G	0.9	0	0
		XYLENE	0.88	G	0.9	0	0
H045	RESIST BAGS	CELLOSOLVE ACETATE	0.975	G	62	0	0
		HEXAMETHYLDISILAZANE	0.77	G	4.9	0	0
		N-BUTYL ACETATE	0.88	G	5	0	0
		XYLENE	0.88	G	6	0	0
H054	WASTE OIL	1,1,1 TRICHLOROETHANE	1.349	0 G	1	0	0
H058	AZ-300	1,2-PROPYLENE GLYCOL	1.03	0 G	30	0	0
		METHYL-2-PYRROLIDONE	1.027	0 G	30	0	0
H063	AZ 1500	PROPYLENE GLYCOL MONOMETHYL ETHER A	0.96	G	100	0	0
H064	WAVE SOLDER FLUX	ISOPROPANOL	0.785	G	20	0	0
		ETHANOL	1.59	G	10	0	0
		MISC. SOLVENTS	1.18	G	5	0	0
H069	WATER/ETHYLENE GLYCOL (NON-HAZ)	ETHYLENE GLYCOL	1.115	G	50	0	0
					TOTAL	963	7870

ATTACHMENT V.

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)
(DATA CALCULATED FROM TOTALIZED FLOW READINGS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.
01/01/89	732600	0	750200	926300	0
01/02/89	759900	0	775600	977100	200
01/03/89	6200	886900	902200	1105700	3700
01/04/89	0	985100	995300	1208800	1200
01/05/89	0	996700	1007200	1159100	7500
01/06/89	0	993800	1004500	1180700	4400
01/07/89	0	925500	925500	1107520	0
01/08/89	0	828000	846200	1081180	0
01/09/89	0	865100	874800	1069400	3300
01/10/89	0	957700	967900	1153700	3500
01/11/89	0	909300	918800	1142800	500
01/12/89	0	1047400	1058300	1258600	6400
01/13/89	0	1006800	1006800	1107520	3380
01/14/89	0	925500	925500	1114800	3120
01/15/89	0	892200	923300	1272580	1200
01/16/89	0	845500	855900	1048300	3000
01/17/89	0	974700	986200	1189300	2900
01/18/89	0	905500	916400	1103800	0
01/19/89	57100	889100	957200	1124400	4100
01/20/89	868400	0	889100	1050700	2200
01/21/89	967500	0	990600	1176800	1700
01/22/89	1251500	0	1280600	1443800	1300
01/23/89	513200	0	525700	596900	0
01/24/89	1226900	0	1257000	1352500	7300
01/25/89	943300	0	965900	1099700	1400
01/26/89	934000	0	956700	1087400	6600
01/27/89	991900	0	1015000	1157600	3100
01/28/89	1006800	0	1030900	1168700	2500
01/29/89	825600	0	845500	999000	0
01/30/89	886500	0	908200	1054700	2900
01/31/89	1035800	0	1060200	1213200	1800
TOTAL	13007200	15834800	29323200	34732600	79200
AVERAGE	419587	510800	945909	1120406	2554
MINIMUM	0	0	525700	596900	0
MAXIMUM	1251500	1047400	1280600	1443800	7500

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.
02/01/89	150400	842300	1004600	1230500	0
02/02/89	0	1000200	1011100	1214700	7100
02/03/89	0	1036400	1047300	1273300	4200
02/04/89	0	956800	966600	1176400	4600
02/05/89	0	872800	881800	1082299	0
02/06/89	0	849600	859300	1056300	3400
02/07/89	0	978000	989400	1179600	7000
02/08/89	0	952600	963000	1180800	0
02/09/89	0	1009900	1020500	1236300	7900
02/10/89	0	979700	990600	1176100	2300
02/11/89	0	948300	959800	1133200	3500
02/12/89	0	845100	854900	1033800	0
02/13/89	0	844800	854400	1032500	200
02/14/89	0	1008100	1019700	1248800	4800
02/15/89	0	952300	961900	1192700	0
02/16/89	0	852500	861400	1038400	3900
02/17/89	0	1134900	1146300	1384400	5000
02/18/89	0	928500	937600	1171900	700
02/19/89	0	847800	855200	1054400	0
02/20/89	0	861500	869500	1067800	200
02/21/89	0	820700	829600	1019500	1400
02/22/89	0	1113900	1126600	1420800	1200
02/23/89	0	1040700	1051800	1249200	4100
02/24/89	0	1004300	1015400	1146900	4500
02/25/89	0	1335800	1349700	1517800	4600
02/26/89	0	539800	543700	618900	0
02/27/89	0	893200	900500	1027800	900
02/28/89	0	1130400	1142900	1322400	1600
TOTAL	150400	26580900	27015100	32487499	73100
AVERAGE	5371	949317	964825	1160267	2610
MINIMUM	0	539800	543700	618900	0
MAXIMUM	150400	1335800	1349700	1517800	7900

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.
03/01/89	0	1051700	1061400	1254300	3900
03/02/89	1051800	6400	1081600	1240000	7700
03/03/89	1103200	0	1127700	1270800	8100
03/04/89	1127300	0	1151900	1348500	1800
03/05/89	1006600	0	1029300	1256900	0
03/06/89	1001000	0	1023400	1227100	1500
03/07/89	1037000	0	1059800	1252500	4400
03/08/89	1018200	0	1041800	1176800	4000
03/09/89	1060200	0	1085700	1209000	4300
03/10/89	1058400	0	1082900	1182600	3400
03/11/89	1034400	0	1058700	1158900	3600
03/12/89	923000	0	945800	1046800	0
03/13/89	913500	0	935300	1088000	3400
03/14/89	1204100	0	1230800	1395700	4100
03/15/89	684200	373200	1077500	1281900	4300
03/16/89	1056000	0	1083600	12245	4300
03/17/89	1026700	0	1047200	2473255	4300
03/18/89	1077300	0	1103100	1311500	4300
03/19/89	776000	0	795800	928100	4300
03/20/89	917000	0	938600	1121900	4400
03/21/89	1035700	0	1060700	1212700	7300
03/22/89	1024000	0	1048900	1221300	5000
03/23/89	971100	0	995200	1157300	3900
03/24/89	253200	777200	1045500	1268600	3400
03/25/89	0	920100	931500	1010400	3000
03/26/89	0	618400	624600	839900	0
03/27/89	0	683900	691700	968600	700
03/28/89	0	822300	832300	1059600	6600
03/29/89	0	789400	799300	1077600	0
03/30/89	0	951000	963100	1196400	6600
03/31/89	0	1109600	1122800	1375400	3200
TOTAL	22359900	8103200	31077500	36624600	115800
AVERAGE	721287	261393	1002500	1181438	3735
MINIMUM	0	0	624600	12245	0
MAXIMUM	1204100	1109600	1230800	2473255	8100

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.
04/01/89	0	1044000	1057000	1308000	400
04/02/89	0	965100	977500	1158400	0
04/03/89	1900	939800	954200	1168400	4500
04/04/89	0	1077000	1089500	1348900	2700
04/05/89	733500	384300	1139000	1374800	1000
04/06/89	1024200	0	1047600	1278500	5100
04/07/89	972300	0	995200	1170100	3200
04/08/89	1028200	0	1052600	1257600	600
04/09/89	750200	0	768300	903800	0
04/10/89	904500	0	926100	1068900	3400
04/11/89	926500	0	948300	1121400	6200
04/12/89	1026300	0	1050400	1332900	2500
04/13/89	1014100	0	1037400	1234500	1500
04/14/89	1171600	0	1198200	1418900	0
04/15/89	1154400	0	1180800	1395500	4000
04/16/89	1043700	0	1069000	1309700	200
04/17/89	1044600	0	1070100	1312300	2300
04/18/89	1092300	0	1117500	1375200	4200
04/19/89	1136800	0	1163200	1437900	1100
04/20/89	1170400	0	1196800	1506600	4900
04/21/89	1250900	0	1279300	1607400	5800
04/22/89	1068700	0	1093400	1413100	700
04/23/89	1029000	0	1052400	1392900	0
04/24/89	982300	0	1004200	1331300	2600
04/25/89	1142700	0	1169200	1534000	3300
04/26/89	1234900	0	1262600	1672700	2500
04/27/89	1237200	0	1265400	1693100	5100
04/28/89	1150300	0	1177000	1609100	1800
04/29/89	1064300	0	1090000	1490200	700
04/30/89	1152700	0	1180300	1595600	0
TOTAL	27508500	4410200	32612500	40821700	70300
AVERAGE	916950	147006	1087083	1360723	2343
MINIMUM	0	0	768300	903800	0
MAXIMUM	1250900	1077000	1279300	1693100	6200

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.
05/01/89	776600	0	793400	1095000	2600
05/02/89	51700	938000	1001000	1425800	5100
05/03/89	25300	878100	913500	1317300	0
05/04/89	0	1077400	1089700	1528700	4100
05/05/89	0	1043800	1055600	1500800	2800
05/06/89	0	972300	983200	1436900	900
05/07/89	0	882100	893000	1331800	0
05/08/89	0	861700	872400	1251300	2900
05/09/89	0	975400	987000	1358600	6000
05/10/89	0	1141500	1154500	1594300	700
05/11/89	0	963000	974300	1372100	4800
05/12/89	0	1056700	1068300	1473100	5500
05/13/89	0	981300	992200	1388300	100
05/14/89	0	921200	931600	1197900	2700
05/15/89	0	934600	945200	1139300	2800
05/16/89	0	1115200	1127000	1363500	3400
05/17/89	0	1119000	1131300	1559400	7000
05/18/89	0	1058100	1070300	1477600	6100
05/19/89	0	1171200	1184300	1631100	4300
05/20/89	80500	1386900	1484500	2055000	0
05/21/89	0	668800	676500	944400	0
05/22/89	0	999600	1011700	1386100	2300
05/23/89	0	1165000	1178300	1569100	6500
05/24/89	0	1089800	1102300	1514500	3100
05/25/89	0	1109000	1121300	1541100	5500
05/26/89	0	1107100	1119300	1540600	2900
TOTAL	934100	25616800	26861700	36993600	82100
AVERAGE	35926	985261	1033142	1422830	3157
MINIMUM	0	0	676500	944400	0
MAXIMUM	776600	1386900	1484500	2055000	7000

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.
06/01/89	0	1103800	1116100	1584700	4500
06/02/89	773300	293600	1087800	1527500	200
06/03/89	1125100	0	1150500	1546800	4600
06/04/89	985000	0	1008500	1400000	0
06/05/89	978700	0	1001800	1376000	2700
06/06/89	1093000	166400	1285900	1634700	8000
06/07/89	1150900	0	1176500	1576100	600
06/08/89	1179500	0	1205900	1526900	13100
06/09/89	977000	270800	1273600	1696300	3500
06/10/89	821200	497200	1343800	1789500	200
06/11/89	1014900	0	1038500	1449800	0
06/12/89	921200	0	943000	1286700	4100
06/13/89	859600	529300	1414900	1868600	5600
06/14/89	796800	474700	1296100	1724600	1300
06/15/89	743900	608800	1379500	1782300	11000
06/16/89	622600	728700	1376300	1779100	1600
06/17/89	1002300	222100	1253100	1652600	7700
06/18/89	1114700	0	1143000	1529800	2550
06/19/89	1114600	0	1143000	1529800	2550
06/20/89	708400	779400	1514600	1936000	13000
06/21/89	627000	733700	1384600	1811400	100
06/22/89	703900	820300	1551300	1982200	12700
06/23/89	651300	764400	1441400	1906900	400
06/24/89	779300	401100	1204900	1590200	5500
06/25/89	873900	0	894700	1110800	200
06/26/89	908800	0	931400	1240900	4000
06/27/89	949000	239800	1215200	1645300	4700
06/28/89	734700	655700	1416700	1852400	3350
06/29/89	734600	655600	1416700	1852400	3350
06/30/89	779900	628700	1436000	1851000	2200
TOTAL	25725100	10574100	37045300	49041300	123300
AVERAGE	857503	352470	1234843	1634710	4110
MINIMUM	0	0	894700	1110800	0
MAXIMUM	1179500	1103800	1551300	1982200	13100

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.
07/01/89	789900	553000	1368900	1757400	3700
07/02/89	874500	274600	1173000	1563550	100
07/03/89	874400	274600	1172900	1563550	100
07/04/89	1126500	0	1152200	1534300	2800
07/05/89	1087200	77700	1190800	1581700	0
07/06/89	594900	714700	1332300	1835400	1500
07/07/89	783800	456200	1263900	1706900	5900
07/08/89	901700	206200	1131600	1552900	1800
07/09/89	1060900	0	1085900	1457300	0
07/10/89	980800	0	1004000	1337400	0
07/11/89	1015300	131700	1172000	1578300	3400
07/12/89	626400	649500	1298600	1781400	1700
07/13/89	578000	817000	1419100	1899700	11300
07/14/89	555300	844100	1423300	1934800	6300
07/15/89	793200	408000	1225100	1662800	7900
07/16/89	971700	71600	1068200	1529200	0
07/17/89	942800	0	966000	1376700	2600
07/18/89	517800	596000	1134300	1619200	0
07/19/89	524600	763800	1310600	1849400	2200
07/20/89	703700	589200	1317600	1778300	14500
07/21/89	794200	392200	1210000	1693900	2800
07/22/89	848900	354400	1228500	1680800	700
07/23/89	727800	422700	1173500	1640500	0
07/24/89	775200	354700	1152900	1623000	0
07/25/89	609100	758700	1391700	1918100	0
07/26/89	710700	346100	1078600	1570600	0
07/27/89	716800	508100	1248200	1756200	8200
07/28/89	558600	764700	1346000	1869800	7300
07/29/89	541200	807000	1371400	1936600	0
07/30/89	1195100	760300	1945700	1630400	0
07/31/89	1307600	703500	2044800	1520000	200
TOTAL	25088600	13600300	39401600	51740100	85000
AVERAGE	809309	438719	1271019	1669035	2741
MINIMUM	517800	0	966000	1337400	0
MAXIMUM	1307600	844100	2044800	1936600	14500

**HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)**

<u>DATE</u>	<u>TOTAL WELL # 1</u>	<u>TOTAL WELL # 2</u>	<u>TOTAL # 1 & # 2</u>	<u>TOTAL WWTP</u>	<u>TOTAL GOV. SYS.</u>
01-Aug-88	866500	0	884600	1181500	3200
02-Aug-88	1417300	0	1447800	1843100	15000
03-Aug-88	690600	0	705300	911700	6500
04-Aug-88	1015800	0	1037300	1339300	5500
05-Aug-88	1091000	0	1114200	1343400	22600
06-Aug-88	965300	0	985900	1261400	3000
07-Aug-88	842400	0	861600	1122000	0
08-Aug-88	933300	0	954100	1163600	6400
09-Aug-88	1022300	0	1044400	1270900	8200
10-Aug-88	989400	0	1010800	1269800	4200
11-Aug-88	1103100	0	1126900	1316000	11800
12-Aug-88	1018700	0	1040800	1267600	6700
13-Aug-88	983000	0	1005100	1272900	2500
14-Aug-88	864700	0	884300	1109000	0
15-Aug-88	914900	0	935600	1141300	4200
16-Aug-88	1038300	0	1060600	1257100	9900
17-Aug-88	947700	0	967300	1189300	0
18-Aug-88	1195300	0	1220900	1465800	11300
19-Aug-88	931600	0	950900	1144500	5200
20-Aug-88	1098000	0	1121300	1375500	1200
21-Aug-88	914400	0	933900	1137100	0
22-Aug-88	935700	0	956000	1159700	6100
23-Aug-88	975700	0	996400	1201300	7600
24-Aug-88	107700	783100	899900	1181800	0
25-Aug-88	0	1070900	1080700	1360100	9700
26-Aug-88	0	1045600	1055400	1301400	5100
27-Aug-88	0	883900	891700	1161900	1800
28-Aug-88	0	567500	572700	878100	0
29-Aug-88	0	623700	628300	908600	6400
30-Aug-88	0	765700	772400	1065700	15000
31-Aug-88	0	888400	896800	1221100	9200
== Sum ==	22862700	6628800	30043900	37822500	188300
== Average ==	737506.452	213832.258	969158.065	1220080.65	6074.19355
== Min ==	0	0	572700	878100	0
== Max ==	1417300	1070900	1447800	1843100	22600

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.	RECYCLE	EST. DW FLOW
08/01/89				1691300	8900	243360	1456840
08/02/89				1517900	3100	243360	1277640
08/03/89				1656700	200	243360	1413540
08/04/89				1586800	10200	243360	1353640
08/05/89				1534800	3400	243360	1294840
08/06/89				1446600	0	243360	1203240
08/07/89				1180600	0	243360	937240
08/08/89				1781700	11600	243360	1549940
08/09/89				1663200	5600	243360	1425440
08/10/89				1417000	13800	243360	1187440
08/11/89				1511100	900	243360	1268640
08/12/89				1753300	11400	243360	1521340
08/13/89				1672700	500	243360	1429840
08/14/89				1529500	4000	243360	1290140
08/15/89				1921200	11200	243360	1689040
08/16/89				1787900	3900	243360	1548440
08/17/89				1790100	9100	243360	1555840
08/18/89				1684280	10900	243360	1451820
08/19/89	772400	815700	1608900	1759420	5600		
08/20/89	1220200	102900	1351000	1454800	300		
08/21/89	1351200	200	1380300	1437500	3700		
08/22/89	955300	638100	1620800	1708000	8500		
08/23/89	662000	883900	1570700	1743400	4100		
08/24/89	671400	933500	1630100	1751900	16000		
08/25/89	1063700	397300	1489300	1398100	5900		
08/26/89	890200	435500	1351000	1785100	0		
08/27/89	993200	317200	1337200	1491500	0		
08/28/89	1269700	0	1298700	1422200	7300		
08/29/89	1230100	223500	1483300	1576900	13000		
08/30/89	1126100	354000	1508800	1657000	300		
08/31/89	1173200	198300	1400900	1517500	11700		
TOTAL	13378700	5300100	19031000	49830000	185100	4380480	24854900
AVERAGE	1029131	407700	1463923	1607419	5970	243360	1380828
MINIMUM	662000	0	1298700	1180600	0	243360	937240
MAXIMUM	1351200	933500	1630100	1921200	16000	243360	1689040

* COMMENTS: DUE TO A LIGHTNING STRIKE ON 7-29-89 ELECTRONIC EQUIPMENT WAS DAMAGED. FLOW DATA FOR WELL #1, WELL#2 AND TOTAL #1 AND #2 IS CONSIDERED INACCURATE FROM 7-29-89 TO 8-18-89 BECAUSE OF CALIBRATION ERRORS WITH BOTH DIGITAL TOTALIZERS AND CHART RECORDERS. THE DAILY FLOW FOR THE DEEPWELL HAS BEEN ESTIMATED AS FOLLOWS:
(FWWTP-RECYCLE)+TOTAL GOV.SYS= ESTIMATED DEEPWELL FLOW

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTF	TOTAL GOV. SYS.
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09/01/89	1066000	421400	1516600	1679000	5700
09/02/89	1444000	378800	1860000	2007300	1000
09/03/89	942900	0	964300	1057800-	0
09/04/89	1330600	0	1360500	1461100	0
09/05/89	1390500	200	1421600	1511500	0
09/06/89	564700	985100	1577400	1645000	4300
09/07/89	709700	845800	1558600	1698900	8100
09/08/89	386900	1140200	1636600	1620500	4500
09/09/89	348200	1228300	1603000	1678600	4800
09/10/89	0	1302700	1326600	1438700	0
09/11/89	0	1274400	1297700	1384600	2900
09/12/89	194900	1314900	1535600	1606600	8100
09/13/89	172600	1359300	1558800	1628700	5200
09/14/89	188100	1336000	1550500	1593300	9100
09/15/89	333600	1329300	1690800	1768600	6100
09/16/89	256700	1158200	1438800	1568200	2100
09/17/89	108200	1215800	1347000	1506000	900
09/18/89	400	1261100	1282000	1391400	1000
09/19/89	495900	1280600	1804800	1854200	7500
09/20/89	357400	1197200	1579500	1642300	3600
09/21/89	333500	1052900	1410000	1482900	8400
09/22/89	570300	1199100	1796200	1851600	4600
09/23/89	321500	1264800	1610800	1654500	5100
09/24/89	174900	1217400	1414300	1494600	300
09/25/89	327500	1180800	1533600	1577000	5000
09/26/89	555700	1106400	1687800	1725100	1500
09/27/89	680000	1006400	1713000	1757500	7600
09/28/89	612700	967500	1605700	1698300	6000
09/29/89	588400	1059900	1675300	1787700	5300
09/30/89	268600	1188000	1480300	1640500	200
TOTAL	14724400	30272500	45837700	48412000	118900
AVERAGE	490813	1009083	1527923	1613733	3963
MINIMUM	0	0	964300	1057800	0
MAXIMUM	1444000	1359300	1860000	2007300	9100

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.
10/01/89	126900	1236700	1386500	1499250	1850
10/02/89	126900	1236600	1386500	1499250	1850
10/03/89	538800	1187900	1753900	1764800	11600
10/04/89	264500	1355100	1644700	1661100	1600
10/05/89	539900	1137200	1703300	1727200	10700
10/06/89	460600	1162700	1649400	1719900	4100
10/07/89	1496700	105700	1634100	1667400	3400
10/08/89	1480500	0	1511500	1520700	100
10/09/89	1215300	178000	1420600	1441800	4000
10/10/89	1240800	557200	1829100	1766400	14500
10/11/89	1151400	561500	1742700	1742800	6300
10/12/89	1545500	0	1577200	1621200	4400
10/13/89	1042600	515800	1586000	1650800	3700
10/14/89	1386600	216400	1633900	1754600	0
10/15/89	1476500	0	1506800	1573900	0
10/16/89	1476300	0	1506900	1579600	1800
10/17/89	1104900	498100	1631200	1732800	2300
10/18/89	1105600	529100	1663200	1747300	4900
10/19/89	1148300	412500	1589100	1644500	6500
10/20/89	1249200	366600	1645300	1645300	7300
10/21/89	964700	759100	1752100	1712700	2000
10/22/89	1305800	225100	1560700	1565500	0
10/23/89	1384800	81000	1494800	1479300	5100
10/24/89	1055200	667300	1751400	1770200	5100
10/25/89	1272000	853100	2160200	2190600	6900
10/26/89	823900	374000	1219000	1225500	3800
10/27/89	1099300	561700	1689600	1707100	6300
10/28/89	1088300	420300	1536900	1582600	3400
10/29/89	1409000	224900	1666100	1726500	200
10/30/89	1165900	103400	1294200	1345500	2100
10/31/89	1018900	562200	1609000	1636700	6400
TOTAL	32765600	16089200	49735900	50902800	132200
AVERAGE	1056954	519006	1604383	1642025	4264
MINIMUM	126900	0	1219000	1225500	0
MAXIMUM	1545500	1355100	2160200	2190600	14500

HARRIS SEMICONDUCTOR
 DEEPWELL INJECTION REPORT
 DISCHARGE VOLUMES (GALLONS)
 (DATA CALCULATED FROM TOTALIZED FLOW READINGS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.
11/01/89	910700	821700	1760000	1805000	4000
11/02/89	1201200	256400	1486000	1551000	4400
11/03/89	1133900	469600	1632900	1698300	4000
11/04/89	1128500	436600	1594000	1666600	1200
11/05/89	1326800	0	1355000	1423100	0
11/06/89	1279800	0	1307600	1381600	3100
11/07/89	1267800	181300	1480100	1556100	6700
11/08/89	362300	1102900	1490100	61400*	200*
11/09/89	367200	1255300	1649400	0*	0*
11/10/89	273300	1274700	1573200	0*	0*
11/11/89	275100	1082700	1379200	0*	0*
11/12/89	5600	1118300	1144200	0*	0*
11/13/89	300	1057300	1077500	0*	0*
11/14/89	285700	1188500	1498700	0*	0*
11/15/89	219200	1260700	1504500	0*	0*
11/16/89	311800	1228200	1567700	0*	0*
11/17/89	586700	1142200	1756400	1048400	3000
11/18/89	410000	1265500	1703100	1647300	5600
11/19/89	380700	1228600	1634400	1587700	0
11/20/89	262200	1230500	1516900	1526000	2900
11/21/89	576800	1134000	1738000	1651500	4000
11/22/89	423000	1189400	1638100	1619300	800
11/23/89	394000	1156500	1575500	1611800	1300
11/24/89	600	1313900	1335500	1346700	100
11/25/89	0	1384000	1406500	1414800	4200
11/26/89	5700	1355700	1383700	1363900	0
11/27/89	6000	1314500	1341800	1405700	1500
11/28/89	377100	1152000	1553700	1617100	3400
11/29/89	313300	1169300	1506900	1583000	3900
11/30/89	317900	1311100	1655400	1565800	7100
TOTAL	14403200	30081400	45246000	32132100	61400
AVERAGE	480106	1002713	1508200	1071070	2046
MINIMUM	0	0	1077500	0	0
MAXIMUM	1326800	1384000	1760000	1805000	7100

* COMMENTS: DUE TO EQUIPMENT FAILURE FLOW TOTALIZERS FOR THE SEMI-
 CONDUCTOR WASTEWATER TREATMENT FACILITY AND GOVERNMENT SYSTEMS FACILITY
 WERE DOWN DURING THE PERIOD OF 11/7-11/16. THE TOTALIZERS HAVE SINCE
 BEEN REPAIRED.

HARRIS SEMICONDUCTOR
 DEEPWELL INJECTION REPORT
 DISCHARGE VOLUMES (GALLONS)
 (DATA CALCULATED FROM TOTALIZED FLOW READINGS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWTP	TOTAL GOV. SYS.
12/01/89	327600	1300300	1654500	1553200	1300
12/02/89	314800	1284100	1625300	1587100	5500
12/03/89	322200	1256600	1604500	1587600	0
12/04/89	229100	1267400	1520100	1286800	2800
12/05/89	508900	1265400	1801600	1561300	900
12/06/89	554800	1253800	1838200	1648100	3700
12/07/89	172600	1172400	1368500	1409400	5400
12/08/89	0	1254200	1276100	1440800	2800
12/09/89	374900	1276500	1678900	1832700	1800
12/10/89	19300	1114600	1153600	1204700	0
12/11/89	25400	1371100	1420400	1421600	2400
12/12/89	498300	1118700	1644500	1678200	3700
12/13/89	424900	1100400	1551000	1667200	600
12/14/89	842400	878800	1751100	1628000	6400
12/15/89	1261800	284600	1578600	1559900	2800
12/16/89	1126200	377800	1534200	1582200	1300
12/17/89	1095700	321900	1446400	1473800	0
12/18/89	1269400	195400	1494900	1514400	1700
12/19/89	1081400	512100	1623400	1661300	3300
12/20/89	1157100	193500	1378400	1450800	2600
12/21/89	1197700	161500	1387900	1398400	5000
12/22/89	1076500	454500	1560600	1604400	1200
12/23/89	1116900	473800	1621900	1626000	900
12/24/89	1549900	625500	829000	1154000	0
12/25/89	288800	965000	939200	1058700	400
12/26/89	121100	530100	663400	729200	200
12/27/89	149800	535700	697800	1406400	0
12/28/89	149800	535700	697700	0	0
12/29/89	1121600	25300	1174200	1074300	0
12/30/89	1484300	0	1517300	1374800	0
12/31/89	3100	1341900	1366900	1204800	0
TOTAL	19866300	24448600	43400100	43380100	56700
AVERAGE	640848	788664	1400003	1399358	1829
MINIMUM	0	0	663400	0	0
MAXIMUM	1549900	1371100	1838200	1832700	6400

REMARKS: DUE TO THE NORMALLY SCHEDULED MAIN., READINGS WERE NOT TAKEN ON 12/27/89. DATA NOTED ABOVE FOR THAT DATE HAS BEEN EXTRAPOLATED FROM CHART RECORDINGS.

ATTACHMENT VII.

1988 Inventory

HAZARDOUS WASTE
 COMPONENTS REPORT
 REPORT DATE: 03/01/90

Q000	CHEMICAL/COMPONENT	CAS NUMBER	MAI_POUNDS	AVE_POUNDS
04			0	2,350
	1,1,1,1-TETRACHLOROETHANE	107-66-1	0	1,367
	1,1,1,2-TETRACHLORO-1,1,2,2,2-PENTACHLOROETHANE	76-10-1	0	2,350
	2-METHYL-4-ISOTHIAZOLIN-3-ONE	2852-20-4	0	10
	5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	26172-35-4	0	30
	ACETIC ACID	64-19-7	0	145
	ACETONE	67-64-1	0	392
	ALIPHATIC HYDROCARBON		0	107
	ALIPHATIC HYDROCARBON		0	107
	ALIPHATIC PETROLEUM DISTILLATES		0	87
	ALUMINUM OXIDE	1344-28-1	0	0
	ALUMINA OXIDE	1344-28-1	0	0
	AMMONIA	7189-11-7	0	6
	AMMONIUM DIFLUORIDE	1341-47-7	0	1
	AMMONIUM FLUORIDE	12125-11-3	0	431
	AMMONIUM HYDROXIDE	1336-21-6	0	32
	AMMONIUM OLEATE		0	0
	AMMONIUM PERSULFATE	7727-54-0	0	362
	AMMONIUM TETRATE		0	0
	ANTIOXIBART	7427-90-5	0	0
	ATON	7440-57-1	0	0
	PROPANOIC SUBAMIDE		0	0
	ARGININE	7764-42-1	0	0
	910-(1-TRIBUTYL)TIN OXIDE	54-75-7	0	25
	BORIC ACID	10043-35-1	0	343
	BORON TRIBROMIDE	10394-33-4	0	13
	CALCIUM HYPOCHLORITE	7770-54-5	0	100
	CARBON DIOXIDE		0	0
	CATION EXCHANGE POLYMER		0	0
	CELLULOSE		0	0
	CELLULOSE ACETATE	111-48-9	0	82
	CHROMIC ACID	353-12-6	0	1
	CHROMIUM TRIOXIDE		0	0
	CHRYNOL TRIOXIDE SOLUTION		0	8
	CUPRIC NITRATE	10031-40-7	0	1
	CUPRIC SULFATE	7759-91-7	0	30
	CYCLIZED POLYISOPRENE	9005-01-0	0	17
	CYCLOHEXANE	110-82-7	0	0
	DIATYMOSEDUS EARTH	30790-33-2	0	0
	DICHLORO-DIFLUOROMETHANE	75-71-8	0	1
	DICHLOROSILANE	4109-73-0	0	1,015
	DIMETHANOLACRE	111-42-2	0	304
	DIMETHYL ETHER PROPELLANT	115-10-8	0	0
	DIMETHANE		0	0
	ETHYL ALCOHOL	64-17-8	0	306
	ETHYL ALCOHOL FLAT		0	11
	ETHYL CYANOACRYLATE		0	0
	ETHYLENEGLYCOL	100-11-4	0	77
	ETHYLENE GLYCOL MONOETHYL ETHER	111-76-1	0	0

HARRIS SEMICONDUCTOR
 COMPANY'S REPORT
 REPORT DATE: 03/21/80

LOG	CHEMICAL/COMPONENT	CAS NUMBER	WGT_POUNDS	AVG_POUNDS
04	ETHYLENEDIAMINE TETRAACETIC ACID DISODIUM SALT		0	0
	FATTY ACID DIBENZOYLIDE		0	0
	FERRIC CHLORIDE	7703-68-0	0	6
	FREON 11		0	184
	GLYCINE	56-40-1	0	0
	GLYCOL		0	42
	HELIUM		0	133
	HEXANE	110-82-0	0	0
	HXDS		0	20
	HYDROCHLORIC ACID	7647-01-0	0	369
	UNREFINED PARAFFINIC PETROLEUM OIL	69742-84-8	0	400
	HYDROFLUORIC ACID	7664-39-3	0	501
	HYDROGEN	1333-74-0	0	83,442
	HYDROGEN CHLORIDE	7647-01-0	0	33,551
	HYDROGEN PEROXIDE	7782-84-1	0	278
	HYDROQUINONE	103-31-9	0	0
	INDACNIC ACID		0	0
	IRON OXIDE	1333-87-1	0	0
	ISOBUTANE	75-28-5	0	0
	ISOPARAFFINIC HYDROCARBONS		0	2
	ISOPROPYL ALCOHOL	67-63-0	0	378
	KAPOTAB	6900-26-6	0	0
	LANTHANUM CHLORIDE		0	21
	LEAD	7439-92-1	0	0
	LITHIUM COMPOUND		0	54
	MAGNESIUM ALUMINOSILOCATE	513-11-9	0	13
	MEROPH 680		0	60
	METHYL ETHYL KETONE	78-93-3	0	8
	METHYL ETHYL KETONE		0	0
	METHYLENE CHLORIDE	75-28-5	0	7
	MINGRAL SPIRITS	73-48-6	0	52
	MODIFIED ALYD		0	0
	MODIFIED ALYD RESIN		0	0
	MONOTHANOLAMINE	121-45-0	0	604
	MORPHOLINE		0	0
	N-ALYL DIMETHYL BENZYL AMMONIUM CHLORIDE	68701-01-8	0	57
	N-BUTYL ACETATE	105-85-4	0	108
	N-BUTYL ALCOHOL		0	14
	NHEXANE		0	0
	NITROXYL PYRROLIDONE		0	134
	N-METHYLPYRROLIDONE	671-30-4	0	4
	NAPHTHA		0	0
	NITRIC ACID	7697-07-2	0	453
	NITROGEN	7727-07-2	0	39,686
	NO-C6H6		0	2
	NO-C6H6 PROPRIETARY		0	11
	OIL, WHITE	8042-87-8	0	0
	ORGANIC RESIN		0	0
	ORTHOPHTHAL POLYMERIZABLE	7134-97-8	0	30

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HARRIS SEMICONDUCTOR
COMPONENTS REPORT
REPORT DATE: 05/21/90

QTY	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVE_POUNDS
04	OXYGEN	7782-44-7	0	57,166
	PARAFFINIC PETROLEUM OIL		0	1
	PARAFFIN WAX		0	0
	PARAFFINIC GREASE		0	0
	PHOSPHINE	7503-31-2	0	0
	PHOSPHORIC ACID	7644-38-2	0	42
	POLY (METHYL METHACRYLATE)		0	0
	POLYTETRAFLUOROETHYLENE	2501-34-6	0	1
	POTASSIUM HYDRATE		0	74
	POTASSIUM HYDROXIDE		0	1,497
	POTASSIUM MONOCHLORIDE	7447-40-7	0	0
	POTASSIUM PHOSPHATE MONOBASIC		0	0
	POTASSIUM SILICATE		0	1
	PROPANE	74-98-6	0	1
	PROPANE-ISOBUTANE		0	7
	PROPYLENE GLYCOL	57-55-6	0	10
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	0	90
	SILICON CARBIDE	409-21-1	0	1
	SILICON DIOXIDE		0	556
	SILICON TETRACHLORIDE	10025-94-7	0	11,790
	SODIUM HYDROXIDE	1310-73-2	0	2,994
	SODIUM HYPOCHLORITE	7581-52-9	0	50
	SODIUM POLYBorate	7671-35-0	0	7
	SODIUM NITRITE	7532-00-0	0	29
	SODIUM PHOSPHATE TRIBASIC	7558-79-4	0	0
	SODIUM TETRABORATE	12045-98-4	0	102
	SULFURIC ACID	7664-93-9	0	4,235
	SURFACTANT		0	0
	SYNTHETIC RUBBER		0	0
	TERPENE RESIN	7429-50-5	0	0
	TETRAMETHYL AMMONIUM HYDROXIDE	75-57-2	0	0
	TETRAMETHYLAMMONIUM HYDROXIDE	75-57-2	0	0
	THYMOL		0	0
	TIRON		0	0
	TOLUENE	103-95-0	0	2
	TOLUOL	108-88-6	0	1
	TRADE SECRET/GENERIC/ /	74-84-2	0	72
	TRICHLOROSILANE	10625-76-2	0	23,576
	TRIED-AYLAMINE		0	687
	WATER	7732-18-5	0	1,634
	WHITE SPIRIT	800-65-84-2	0	0
	XYLENE		0	519
04	1,1,1,2 TRICHLORO-1,2,2,2-TETRAFLUOROETHANE	72-12-1	0	10
	ACETONE	57-68-1	0	13
	ALKYL ARYL SULFONATE		0	0
	AMMONIA	7664-41-7	0	0
	AMMONIUM DIFLUORIDE	1741-49-7	0	20,183
	BIDICHLORODIFLUOROMETHANE	75-71-9	0	0
	ETHYLENE DIAMINE TETRAACETATE		0	0

HARRIS SEMICONDUCTOR
 COMPONENTS REPORT
 REPORT DATE: 03/21/90

QTY	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
96	POLYETHOXYNONYL PHENOL		0	1
	PROPANE	74-98-6	0	300
	SODIUM AMONIUM		0	1
	TEFLON OF TETRAFLUOROETHYLENE		0	0
	TRICHLOROFLUOROMETHANE	75-68-9	0	0
	TRIMETHANOL AMONIUM		0	0
	WATER	7732-18-8	0	0
81	1,1,1 TRICHLOROETHANE	71-55-6	0	1,518
	1,1,1-TRICHLOROETHANE	71-55-6	0	158
	1,1,2-TRICHLORO-1,1,2-TRIFLUOROETHANE	76-13-1	0	599
	1,1,2-TRICHLORO-1,1,2-TRIFLUOROETHANE	76-13-1	0	5,271
	1,1,4 TRICHLOROETHENE	110-30-1	0	229
	1-METHOXY-2-PROPANOL ACETATE	136-55-6	0	1
	1-METHOXY-2-PROPYL ACETATE		0	0
	2,4,6-TRICHLOROETHYLAMINE	140-74-8	0	0
	2-METHOXY-1-PROPANOL		0	2
	4,4'-ISOPROPYLIDENEDIPHENYL EPICHLOROHYDRIN RESIN	25068-38-1	0	0
	n-BUTYROLACETONE	76-48-0	0	0
	ACETIC ACID	64-19-7	0	39
	ACETONE	67-64-1	0	641
	ACETYLENEHYDRAZONE		0	0
	ACETYLPHENYLHYDRAZONE		0	0
	ACRYLIC POLYMER		0	0
	ACRYLIC RESIN		0	0
	ALCOHOL		0	0
	ALIPHATIC PETROLEUM HYDROCARBON		0	0
	ALKALINE SALTS		0	2
	ALUMINIUM OXIDE	1344-28-1	0	0
	ALUMINUM OXIDE	1344-28-1	0	1
	AMMONIA	7784-41-7	0	158
	AMMONIUM FLUORIDE	12125-1-8	0	186
	AMMONIUM HYDROXIDE	1336-11-8	0	34
	AMMONIUM OLEATE		0	0
	ARSON	7440-17-1	0	454
	AROMATIC BISAZIDE		0	0
	AROMATIC PHENOL		0	116
	AROMATIC C9-C12		0	116
	ARSTINE	7784-42-1	0	0
	118-PHENOL A FUMARATE RESIN		0	0
	BORON TRIOXIDE	10294-70-4	0	32
	BORON TRIFLUORIDE	7637-07-3	0	0
	BUTYL ACETATE	110-50-4	0	0
	BUTYL CELLOSOLVE ACETATE	112-17-2	0	0
	CALCIUM CARBOATE	101-14-3	0	1
	CARBON BLACK	1333-36-4	0	0
	CARBON DIOXIDE		0	305
	CELLOSOLVE		0	1
	CELLOSOLVE ACETATE	111-13-7	0	14

HARRIS BENCOCKDUCTOR
 COMPONENTS REPORT
 REPORT DATE: 03/21/90

BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_FOUNDS	AVE_FOUNDS
51	CERIC SULFATE	13370-82-4	0	0
	CHLOROBENZENE	108-90-7	0	9
	CHLORODIFLUOROMETHANE	75-45-6	0	78
	CHLOROPENTAFLUOROETHANE	76-18-3	0	15
	CHLOROTRIFLUOROMETHANE	75-72-8	0	95
	CHROMIC ACID	1333-82-0	0	2
	CHROMIUM TRIOXIDE		0	0
	COPPER SULFATE	1327-05-2	0	1
	CORROSION INHIBITOR	88875-45-5	0	0
	CRESOL-FORMALDEHYDE NOVELAK RESIN	9016-52-2	0	1
	CUMENE HYDROPEROXIDE		0	0
	CYCLIZED POLYISOTRENE	9013-71-0	0	25
	CYCLOHEXANE	110-82-7	0	0
	CYCLOPARAFFINS		0	114
	DIACENAPHTHQUINONE SENSITIZER		0	1
	DIBUTYL PHTHALATE	84-74-1	0	1
	DICHLORODIFLUOROMETHANE	75-71-8	0	137
	DICHLOROSILANE	4109-96-0	0	268
	DIETHYLENE GLYCOL MONOBUTYL ETHER	112-94-5	0	31
	DIMETHACRYLATE ESTER		0	0
	DIMETHYL PORYAMIDE	49-12-2	0	0
	DIMETHYLPOLYSILOXANE		0	15
	DODECYLBENZENE SULFONIC ACID	27176-27-0	0	114
	DYE		0	0
	EPDXY RESIN		0	0
	ETHANOLAMINE	141-40-5	0	22
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	162
	ETHYL CYANOACRYLATE		0	0
	ETHYLBENZENE	100-41-1	0	31
	FATTY ACID DERIVATIVE		0	0
	FATTY ACID DIETHANOLAMIDE		0	0
	FERRIC CHLORIDE	7705-08-0	0	23
	GLYCERINE		0	1
	GLYCINE	56-40-6	0	0
	GLYCOL ETHER	107-98-2	0	32
	GLYCOL ETHER PM		0	14
	GUM RESIN		0	2
	HELIUM		0	23
	HYDS		0	19
	HYDROCHLORIC ACID	7647-01-0	0	149
	HYDROFLUORIC ACID	7664-39-7	0	232
	HYDROGEN	1333-74-0	0	1
	HYDROGEN CHLORIDE	7647-01-0	0	60
	HYDROGEN PEROXIDE	7722-84-1	0	450
	HYDROQUINONE	123-71-9	0	0
	HYDROXYALKYL METACRYLATE		0	0
	IRON OXIDE	1333-57-1	0	0
	ISOBUTANE	75-28-5	0	1

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HARRIS SEMICONDUCTOR
COMPONENTS REPORT
REPORT DATE: 03/21/80

SLUG	CHEMICAL COMPONENT	CAS NUMBER	MAX_POUNDS	AVE_POUNDS
81	ISOPARAFFINIC HYDROCARBONS		0	1
	ISOPROPYL ALCOHOL	87-13-6	0	270
	ACROBINE	5019-20-1	0	0
	KETONE		0	0
	LEAD	7439-92-1	0	1
	LPB PROPELLANT	88471-35-7	0	0
	MALEIC ACID		0	0
	METHOXYMILANE		0	1
	METHYL ALCOHOL	67-58-1	0	1,218
	METHYL ETYL KETONE	75-98-7	0	7
	METHYLIS 10-HYDROXYETHYL AMMONIUM NITRATE	71587-00-8	0	0
	METHYLENE CHLORIDE	75-13-2	0	1,411
	NICA	12071-08-8	0	0
	MINERAL OIL		0	10
	MIXERAL SPIRITS	73-45-1	0	0
	MODIFIED N-ALKYL DIKETHYL AMMONIUM SALTS		0	1
	MOLYBDENUM DISULFIDE	1317-33-5	0	1
	MOLYBDENUM TRIBULFITE		0	0
	MONOETHANILAMINE	141-43-5	0	60
	MORPHOLINE		0	0
	N,N-DIALKYL TOLUIDINE		0	0
	N-ALKYL DIKETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	N-BUTYL ACETATE	127-86-4	0	463
	N-METHYL PYRROLIDONE		0	0
	NAPHTHA		0	8
	NAPHTHIC OIL	84742-52-3	0	0
	NITRIC ACID	7697-37-2	0	652
	NITROGEN	7727-37-2	0	1,105
	NITROUS OXIDE	10124-97-2	0	100
	NON-IPA		0	43
	ORTHO-PHENOL POLYETHOXYLATE	9004-87-4	0	575
	OXYGEN	7782-44-7	0	23
	PARAFFINS		0	4
	PERFLUOROCHEMICALS, CS-18	66708-42-1	0	3
	PERMA	105-65-3	0	2
	PHENOL-FORMALDEHYDE RESIN		0	1
	PHOSPHATE		0	2
	PHOSPHINE	7803-51-2	0	0
	PHTHIC ACID	7644-38-2	0	281
	PHOSPHOROUS OXYCHLORIDE	7719-12-2	0	15
	POLY (METHYL METHACRYLATE)		0	0
	POLYMERCAPTAN		0	0
	POTASSIUM HYDROXIDE		0	342
	POTASSIUM IODIDE	7681-11-0	0	0
	PROPANE	74-98-6	0	5
	PROPANE-ISOBUTANE		0	0
	PROPYLENE DIETHERY INGREDIENT		0	0
	PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-1	0	75

KARRIS SEMICONDUCTOR
 COMPONENTS REPORT
 REPORT DATE: 03/21/90

BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
51	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-68-3	0	52
	ROBIN	3050-09-7	0	11
	SACCHARIN		0	0
	SILANE	7503-52-3	0	14
	SILICON CARBIDE	407-21-2	0	2
	SILVER	7440-22-4	0	0
	SODIUM CARBONATE	5968-11-6	0	0
	SODIUM CHLORIDE	7647-14-5	0	100
	SODIUM HYDROXIDE	1311-77-0	0	3
	SODIUM HYPOCHLORITE	7681-52-9	0	0
	SOLID PIGMENT		0	0
	SOLVENT		0	0
	STYRENE/ACRYLATE POLYMER	25213-39-2	0	0
	SULFUR HEXAFLUORIDE	2551-62-4	0	113
	SULFUR, SULFEO	7704-34-9	0	17
	SULFURIC ACID	7664-93-9	0	1,504
	SURFACTANT		0	0
	TELOWER OF TETRAFLUOROETHANE		0	0
	TELOWER OF TETRAFLUOROETHYLENE		0	0
	TERGITO, NONIONIC SURFACTANT	28551-14-4	0	208
	TETRAFLUOROETHANE	75-70-0	0	383
	TETRAETHYL AMMONIUM HYDROXIDE	75-59-2	0	14
	TIN	7440-31-3	0	1
	TOLUENE	108-88-3	0	3
	TOLUENE DIISOCYANATE	534-84-0	0	0
	TOLUOL	108-88-3	0	0
	TRACE SECRET/GENERIC /	74-84-2	0	36
	TRICHLOROFLUOROETHANE	75-84-9	0	3
	TRIFLUOROETHANE	75-46-7	0	4
	V K I P NAPHTHA	14740-89-3	0	0
	WATER	7732-18-5	0	849
	WHITE SPIRIT	8002-3-84-2	0	0
	XYLENE		0	386
	ZINC DIALKYL DITHIOPHOSPHATE	26566-93-0	0	0
51			0	41
	1,1,1 TRICHLOROETHANE	17-55-6	0	65
	1,1,1-TRICHLOROETHANE	71-55-6	0	0
	1,1,1-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	52
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	243
	1-METHOXY-2-PROPANOL ACETATE	108-65-6	0	0
	1-PROPANOL	71-23-8	0	0
	2,2 DIBROMO 3 NITRILOPROPION		0	6
	2,2 DIBROMO 3 NITRILOPROPIONOXIDE		0	172
	2-METHOXY-1-PROPANOL		0	1
	2-METHYL-4-ISOTHIAZOLIN-3-ONE	3622-10-4	0	3
	4,4'-ISOPROPYLIDENEDIPHENOL EPICHLOROHYDRIN RESIN	23065-38-6	0	0
	3-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	26172-03-4	0	25
	ACETIC ACID	64-19-7	0	111
	ACETONE	67-64-1	0	74

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SLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
52	ACRYLIC RESIN		0	0
	ADDITIVE	7431-66-9	0	0
	ANDE		0	172
	AMINOETHYL PROPANOL	124-68-5	0	0
	AMMONIA	7804-41-7	0	0
	AMMONIUM FLUORIDE	12125-11-8	0	78
	AMMONIUM HYDROXIDE	1336-11-6	0	413
	AMYL ACETATE	628-83-7	0	0
	ARGON	7440-37-1	0	52
	AROMATIC BISAZIDE		0	0
	ASPHALT		0	0
	BARIUM FERRITE		0	0
	BARIUM HYDROXIDE	12230-71-6	0	4
	BORON TRIBROMIDE	10294-33-4	0	24
	BROMOTHYMOLO BLUE INDICATOR R-1003H		0	1
	BUTANOL	71-36-3	0	0
	BUTYL ACETATE	123-86-4	0	0
	BUTYL GLYCIDYL ETHER		0	0
	CALCIUM HYPOCHLORITE	7778-54-3	0	100
	CARSON BLACK	1333-86-4	0	0
	CARBON DIOXIDE		0	1,810
	CELLULOSE		0	1
	CERIC SULFATE	13570-55-4	0	0
	CHLOROBENZENE	108-90-7	0	3
	CHLORODIFLUOROMETHANE	75-45-6	0	6
	CHLOROPENTAFLUOROETHANE	75-15-0	0	15
	CHLOROTRIFLUOROMETHANE	75-72-9	0	18
	CHROMIUM DIOXIDE	12018-01-6	0	1
	CHROMIUM TRIOXIDE		0	6
	CUPRIC NITRATE	10031-42-1	0	1
	CYCLIZED POLYISOPRENE	9003-21-0	0	0
	DYDLOHEXANONE		0	1
	DIBUTYL PHTHALATE	84-74-2	0	0
	DICHLORODIFLUOROMETHANE	75-71-8	0	3,113
	DIETHYLENE GLYCOL MONOBUTYL ETHER	112-74-3	0	6
	DIMETHYL FORMAMIDE	63-12-2	0	4
	DIMETHYL SULFOXIDE	67-68-3	0	4
	EPICHLORHYDRIN	102-83-3	0	0
	EPOXY RESIN		0	0
	ETHANOLAMINE	141-43-5	0	4
	ETHOXYLATED TALL OIL FATTY ACIDE	61791-10-2	0	0
	ETHYL ALCOHOL	64-17-5	0	5
	ETHYL CYANOACRYLATE		0	0
	ETHYLBENZENE	100-41-4	0	0
	ETHYLENE GLYCOL	107-21-1	0	509
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0	0
	FATTY ACID DERIVATIVE		0	0
	FATTY ACID GLYCERIDES	67789-57-1	0	0
	FORMALDEHYDE	50-00-0	0	1,527

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX POUNDS	AVG POUNDS
52	FORMIC ACID	64-19-6	0	0
	FREON 11		0	0
	FREON 23		0	99
	GLYCERINE		0	12
	GLYCOL ETHER	107-96-2	0	5
	GRAPHITE	7782-42-5	0	0
	GUM RESIN		0	1
	HELIUM		0	9
	HEXALENE GLYCOL	107-41-5	0	0
	HEXANE	110-34-3	0	3
	HYDROCARBON LUBRICANT		0	0
	HYDROCHLORIC ACID	7647-01-0	0	85
	HYDROFLUORIC ACID	7664-39-3	0	28
	HYDROGEN	1333-74-0	0	1
	HYDROGEN CHLORIDE	7647-01-0	0	4,470
	HYDROGEN PEROXIDE	7722-84-1	0	5,542
	HYDROQUINONE	123-31-9	0	0
	HYDROTREATED PETROLUEM	64742-57-0	0	13
	ISOBUTANE	75-25-5	0	0
	ISOPARAFFINIC HYDROCARBONS		0	0
	ISOPROPYL ALCOHOL	67-63-0	0	77
	METHYL ALCOHOL	67-56-1	0	83
	METHYL CELLOSOLVE	109-36-4	0	4
	METHYL ETHYL KETONE	78-93-3	0	2
	METHYL TRIMETHOXYGLICANE		0	0
	METHYLENE CHLORIDE	75-09-2	0	129
	MINERAL OIL		0	1,176
	MINERAL SPIRITS	75-45-6	0	69
	MONOTERAMOLAXINE	141-43-5	0	10
	N-AMYL ACETATE	629-67-7	0	0
	NAPHTHA		0	0
	NAPHTHENIC PETROLEUM DISTILLATES	64742-44-5	0	38
	NITRIC ACID	7697-37-2	0	189
	NITROGEN	7727-37-2	0	384
	NITROMETHANE	75-52-3	0	0
	NITROUS OXIDE	10024-97-1	0	50
	NON-08-6		0	399
	OIL, PETROLEUM	71965-37-2	0	7
	OIL, REFINED MINERAL		0	1,212
	ORGANIC PIGMENT	84179-84-8	0	0
	ORGANIC SOLVENT		0	0
	OXALIC ACID	144-62-7	0	2
	OXYGEN	7782-44-7	0	51
	PERFLUOROCEMICAL, C8-16	36508-42-1	0	67
	PERMEA	108-65-6	0	0
	PHENOL	108-95-2	0	0
	PHOSPHINE	7903-51-2	0	0
	PHOSPHORIC ACID	7644-38-2	0	75
	PHOSPHOROUS DICHLORIDE	7719-12-1	0	21

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BLOG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
52	POLY (METHYL METHACRYLATE)		0	0
	POLYMER		0	1
	POLYPROPYLENE	5000-67-0	0	0
	POTASSIUM BICHRONATE	7789-50-9	0	0
	POTASSIUM HYDROXIDE		0	100
	PROPANE	74-98-6	0	0
	PROPANE-ISOBUTANE		0	4
	PROPRIETARY COMPONENT D		0	55
	PROPRIETARY INGREDIENT		0	0
	PROPYLENE GLYCOL	57-85-6	0	1
	PROPYLENE GLYCOL DIMETHYL ETHER	107-99-2	0	22
	PROPYLENE GLYCOL DIMETHYL ETHER ACETATE	108-65-6	0	1
	PROPYLENE GLYCOL PHENYL ETHER	770-55-4	0	1
	PYDLYME		0	0
	SILANE	7505-62-5	0	9
	SILVER	7440-22-4	0	0
	SODIUM CARBONATE	5848-11-8	0	0
	SODIUM CHLORIDE	7647-14-5	0	150
	SODIUM CITRATE	144-33-0	0	6
	SODIUM HYDROXIDE	1310-73-2	0	3,324
	SODIUM HYPOCHLORITE	7681-52-9	0	49
	SODIUM METABISULFITE	7681-57-4	0	1
	SODIUM MOLYBDATE	7631-95-0	0	4
	SODIUM SULFITE	7757-83-7	0	1
	SODIUM TETRABORATE	12045-68-4	0	2
	STANDARD SOLVENT	8052-41-3	0	32
	STYRENE ACRYLATE COPOLYMER	100-12-5-97	0	3
	SUBSTITUTED BILEYANE POLYMER	8762-97-4	0	0
	SULFUR HEXAFLUORIDE	2551-62-4	0	109
	SULFURIC ACID	7664-35-9	0	3,534
	TANNIC ACID POWDER	1401-55-1	0	5
	TEFLON OF TETRAFLUOROETHYLENE		0	0
TESS	75-10-4	0	1	
TETRAFLUOROMETHANE	75-73-0	0	294	
TOLUENE	108-88-3	0	15	
TOLUENE DIISSOCYANATE	894-50-9	0	0	
TOLUOL	108-88-3	0	0	
TRADE SECRET/GENERIC/ /	74-86-1	0	128	
TRICHLOROETHYLENE	79-01-6	0	12	
TRICHLOROFLUOROMETHANE	75-44-9	0	2	
TRIFLUOROMETHANE	75-45-7	0	12	
V * K P NAP-THA	86742-67-9	0	0	
WATER	7732-18-5	0	0	
XYLENE		0	109	
53	ACETIC ACID	64-19-7	0	9
	ALUMINUM SULFATE	10043-01-3	0	1
	AMMONIA	7664-41-7	0	0
	AMMONIUM HYDROXIDE	1336-21-6	0	0
	AMMONIUM THIOCYANATE		0	1

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BLOG	CHEMICAL COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
53	AMMONIUM THIOSULFATE	7783-18-8	0	45
	ANTIOXIDANT	7429-90-5	0	0
	CELLOSOLVE		0	0
	CYCLOHEXANE	110-92-7	0	0
	DIMETHYL ETHER PROPELLANT	115-10-6	0	0
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	0
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0	0
	HEXANE	110-84-3	0	5
	HYDROQUINONE	123-31-9	0	2
	ISOBUTANE	75-28-5	0	0
	ISOPROPYL ALCOHOL	67-63-0	0	15
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MONOETHANOLAMINE	141-43-1	0	0
	NOBAPHOLINE		0	0
	N-ALKYL DIKETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	N-ALKYL ACETATE	628-68-7	0	0
	N-HEXANE		0	0
	POTASSIUM HYDROXIDE		0	0
	POTASSIUM SULFITE	10117-58-1	0	1
	PROPANE	74-98-6	0	0
	SODIUM BISULFITE	7631-90-5	0	3
	SODIUM CARBONATE	5968-11-6	0	1
	SODIUM HYDROXIDE	1310-73-2	0	2
	SODIUM HYPOCHLORITE	7681-52-9	0	1
	SURFACTANT		0	0
	SYNTHETIC RUBBER		0	0
	TERPENE RESIN	7429-90-5	0	0
	WATER	7732-18-5	0	85
54			0	2,880
	1,1,1 TRICHLOROETHANE	77-55-6	0	1,012
	1,1,1 TRIMETHYL-N-TRIMETHYL ETHER		0	3
	1,1,2-TRICHLORO-1,1,2-TRIFLUOROETHANE	76-13-1	0	2,560
	1,2,4 TRICHLOROBENZENE	620-82-1	0	185
	1,2-DICHLOROBENZENE	95-50-1	0	184
	1-METHOXY-2-PROPANOL ACETATE	100-66-6	0	0
	2-ETHOXYETHYL ACETATE	111-15-9	0	62
	2-METHYL-4-ISOTHIAZOLIN-3-ONE	2682-20-4	0	3
	5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	26172-55-4	0	25
	ACETIC ACID	64-19-7	0	32
	ACETONE	67-64-1	0	585
	ACRYLIC RESIN		0	0
	ALKALINE SALTS		0	1
	ALKYL ARYL SULFONIC ACID		0	0
	AMMONIA	7664-41-7	0	504
	AMMONIUM FLUORIDE	12125-1-8	0	458
	AMMONIUM HYDROXIDE	1338-31-5	0	109
	ANHYDROUS SILICA		0	0

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QIDS	CHEMICAL/COMPONENT	QAS NUMBER	MAX_POUNDS	AVG_POUNDS
54	ARGON	7440-37-1	0	692
	AROMATIC BISAZIDE		0	2
	AROMATIC HYDROCARBON		0	16
	AROMATIC PHENOL		0	93
	AROMATICS 09-012		0	93
	ARSINE	7784-42-1	0	0
	BORON TRIBROMIDE	19794-33-4	0	54
	BORON TRICHLORIDE	10294-74-5	0	16
	BORON TRIFLUORIDE	7637-07-2	0	1
	BUTYL ACETATE	123-84-4	0	5
	BUTYL CELLOSOLVE		0	0
	CARBON DIOXIDE		0	65
	CARBON TETRACHLORIDE	56-23-5	0	94
	CELLOSOLVE ACETATE	111-12-9	0	883
	CERIC SULFATE	13590-92-4	0	0
	CHLORINATED BENZENE		0	0
	CHLORINATED HYDROCARBONS		0	217
	CHLORINE	7782-50-5	0	200
	CHROMIC ACID	1333-82-0	0	3
	CRESOL	1319-77-3	0	117
	CRESOL FORMALDEHYDE RESIN	27029-76-1	0	20
	CRESOL-FORMALDEHYDE NOVALAK RESIN	9016-83-8	0	0
	CRESOL-FORMALDEHYDE RESIN		0	69
	CYCLIZED POLYISOPRENE	9003-31-0	0	69
	CYCLOPARAFFINS		0	93
	DI(2-ETHYLHEXYL) PHTHALATE	117-81-7	0	0
	DIATOMACEOUS EARTH	61790-33-2	0	0
	DIAZINAPHTHOQUINONE SENSITIZER		0	0
	DIBORANE	19287-45-7	0	1
	DIBUTYL PHTHALATE	84-74-2	0	0
	DICHLORODIFLUOROMETHANE	75-71-8	0	0
	DICHLOROSILANE	4119-96-0	0	360
	DODECYLBENZENE SULFONIC ACID	27175-87-1	0	243
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL BENZENE	100-61-4	0	0
	ETHYLBENZENE	100-61-6	0	218
	ETHYLENE GLYCOL	107-21-1	0	1,615
	FATTY ACID DERIVATIVE		0	0
	FOMBLIN Y 06/6 L VAC	69991-87-9	0	0
	FREON 113		0	475
	FREON 23		0	840
	GLYCERINE		0	33
	GLYCOL		0	25
	HELIUM		0	150
	HMDS		0	79
	HYDROCHLORIC ACID	7647-01-0	0	362
	HYDROFINISHED PARAFFINIC PETROLEUM OIL	60742-54-7	0	399
	HYDROFLUORIC ACID	7664-79-3	0	581
	HYDROGEN	1333-74-0	0	1

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BLOG	CHEMICAL/COMPONENT	QAS NUMBER	MAX POUNDS	QVE_F1
EA	HYDROGEN CHLORIDE	7647-01-0	0	
	HYDROGEN PEROXIDE	7722-84-1	0	
	HYDROXY BENZENE		0	
	ISOBUTANE	75-28-5	0	
	ISOBUTYL ACETATE	110-19-0	0	
	ISOBUTYL ALCOHOL		0	
	ISOPARAFFINIC HYDROCARBONS		0	
	ISOPROPYL ALCOHOL	67-63-0	0	
	LACTANE	64790-89-0	0	
	MERCURY	7439-97-6	0	
	METHYL ALCOHOL	67-58-1	0	
	METHYL CELLOSOLVE	109-56-4	0	
	METHYL ETHYL KETONE	75-97-0	0	
	METHYL ISOBUTYL KETONE	108-10-1	0	
	METHYLENE CHLORIDE	75-09-2	0	
	MINERAL OIL		0	
	MINERAL SPIRITS	75-45-6	0	
	POLYDISULFIDE		0	
	MONOETHANOLAMINE	141-43-3	0	
	N-BUTYL ACETATE	123-86-4	0	
	N-METHYL PYRROLIDONE		0	
	NAFATAN		0	
	NAPHTHOQUINONE DIAZIDE	68510-63-0	0	
	NAPHTHOQUINONE DIAZIDE	68510-70-0	0	
	NITRIC ACID	7697-37-2	0	
	NITROGEN	7727-37-2	0	
	NITROGEN TRIFLUORIDE	7783-34-2	0	
	NITROUS OXIDE	10024-97-2	0	
	NON-OSHA		0	
	NON-OSHA PROPRIETARY		0	
	OIL, LUBRICATING		0	0
	OIL, REFINED MINERAL		0	1,150
	OIL, WHITE	9042-47-5	0	0
	ETHYLENE GLYCOL POLYETHOXYLATE	9004-87-9	0	50
	OXYGEN	7782-44-7	0	
	PARAFFINE		0	
	PARAFFINIC GREASE		0	
	PERCHLOROETHYLENE		0	
	PHOSPHATE		0	
	PHOSPHINE	7503-51-2	0	
	PHOSPHORIC ACID	7664-38-2	0	
	P-DEP-BROUS DIBROMIDE	7719-12-2	0	
	P-DEP-BROUS TRIBROMIDE	7799-60-6	0	
	POTASSIUM HYDROXIDE		0	
	PROPANE	74-98-6	0	
	PROPANE-ISOBUTANE		0	
	PROPRIETARY INGREDIENT		0	
	PROPYLENE GLYCOL MONOETHYL ETHER ACETATE	109-65-6	0	
	REFRACTORY CERAMIC FIBER		0	

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
54	ROBIN	6050-09-7	0	1
	SILANAXINE		0	3
	SILANE	7503-62-5	0	87
	SILVER	7440-22-4	0	0
	SODIUM ALUMINO SILICATE	1344-00-9	0	40
	SODIUM CARBONATE	5968-11-6	0	0
	SODIUM HYDROXIDE	1310-73-2	0	1,413
	SODIUM HYPOCHLORITE	7681-52-9	0	50
	SODIUM HYPOPHOSPHITE	7681-53-0	0	1
	SODIUM NITRITE	7632-00-0	0	29
	SODIUM TETRABORA	12045-98-4	0	29
	SOLID PIGMENT		0	0
	STANDARD SOLVENT	3052-41-3	0	44
	SULFUR HEXAFLUORIDE	3551-62-4	0	819
	SULFURIC ACID	7664-93-9	0	3,527
	TELOMER OF TETRAFLUOROETHANE		0	0
	TELOMER OF TETRAFLUOROETHYLENE		0	0
	TERGITOL NONIONIC SURFACTANT	68551-14-4	0	42
	TETRAFLUOROMETHANE	75-73-0	0	591
	TETRAETHYL AMMONIUM HYDROXIDE	75-59-2	0	22
	TITANIUM DIOXIDE	13463-67-7	0	0
	TOLUENE	108-88-3	0	1
	TOLUOL	108-88-3	0	0
	TRADE SECRET/GENERIC/ /	74-86-2	0	40
	TRICHLOROETHYLENE	79-01-6	0	12
	TRICHLOROFLUOROMETHANE	75-84-9	0	0
	TUNGSTEN HEXAFLUORIDE		0	0
	V M A P KAPATHA	64742-89-8	0	0
	WATER	7732-18-5	0	351
	XYLENE		0	1,308
55	NITROGEN	7727-37-2	0	266,983
	OXYGEN	7782-14-7	0	57,046
56			0	13
	1,1,1 TRICHLOROETHANE	17-35-6	0	14
	1,1,2-TRICHLORO-1,1,2-TRIFLUOROETHANE	76-13-1	0	14
	1,2 CYCLOHEXANE DICARBOXYLIC ANHYDRIDE		0	0
	1,3 DIAMINO BENZENE		0	0
	2-BUTOXY ETHANOL	111-70-2	0	0
	2-BUTOXYETHANOL	111-76-2	0	0
	4,4'-ISOPROPYLIDENEDIPHENOL EPICHLORO-HYDRIN RESIN	25088-38-4	0	0
	4,4'-METHYLENE DIANILINE		0	0
	ACETONE	67-64-1	0	27
	ADDITIVE	7631-66-9	0	0
	ALIPHATIC ALKYLAMINE		0	0
	ALIPHATIC EPICHLORO-HYDRIN EPOXY RESIN	18460-21-5	0	0
	ALIPHATIC GLYCIDAL ETHER		0	0
	ALIPHATIC PETROLEUM HYDROCARBON		0	6
	ALKYL ARYL SULFONATE		0	0
	ALUMINIUM OXIDE	1344-28-1	0	0

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QTY	CHEMICAL/COMPONENT	PART NUMBER	MAX_POUNDS	AVG_POUNDS
56	ALUMINUM		0	0
	ALUMINUM OXIDE	1744-28-1	0	0
	AMINO ETHYL TRIETHYLENE TETRAMINE	31295-46-2	0	0
	AMINOETHYL PIPERAZINYLETHYL		0	0
	AMMONIA	7554-41-7	0	5
	AMMONIUM CHLORIDE	12125-02-9	0	0
	AMMONIUM OLEATE		0	1
	BUTYL GLYCIDAL ETHER		0	1
	CALCIUM CARBONATE	1017-13-5	0	0
	CARBON BLACK	1337-36-1	0	1
	CARBON DIOXIDE		0	60
	CORROSION INHIBITOR	15595-45-7	0	1
	DIATOMACEOUS EARTH	31790-51-1	0	0
	DICHLORODIFLUOROETHANE	75-71-9	0	0
	DIETHYLENETRIAMINE ALF 4120 ALKYLAMINE	111-40-0	0	0
	EPICHLOROHYDRIN	106-89-9	0	0
	ETHXYLATED TALL OIL FATTY ACIDS	51791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	0
	ETHYL ALCOHOL PURE		0	0
	ETHYL DIACRYLATE		0	0
	ETHYLENE DIAMINE TETRAACETATE		0	0
	FATTY ACID DIETHANOLAMIDE		0	0
	FORMALDEHYDE	150-00-0	0	0
	GLYCINE	56-46-6	0	0
	HYDROGEN CHLORIDE	7647-01-0	0	0
	HYDROQUINONE	123-71-9	0	0
	IRON OXIDE	1309-37-1	0	0
	ISOBUTANE	75-28-5	0	0
	ISOPROPYL ALCOHOL	67-72-0	0	33
	KARBOLINE	3008-21-6	0	0
	KARNESOL CHLORIDE	7751-18-6	0	7
	KARNESOL NITRATE	10377-60-3	0	7
	METHOXYBIANE		0	0
	METHYL ALCOHOL	67-50-1	0	17
	METHYLENE CHLORIDE	75-09-1	0	1
	MINERAL OIL		0	0
	MINERAL SPIRITS	74-45-6	0	0
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	POLYBENZENES DISULFITE		0	1
	POLYETHANOLAMINE	141-43-5	0	1
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	PAPATHA		0	0
	PARTHENIC OIL	14743-32-5	0	1
	PIPERIDINE	7707-77-1	0	17
	OIL, WHITE	8042-47-5	0	0
	ORGANIC SOLVENT	84177-14-5	0	0
	PETROLIUM GREASE		0	1
	POLY (METHYL METHACRYLATE)		0	0

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BLDG	CHEMICAL COMPONENT	CAS NUMBER	MAX POUNDS	AVG POUNDS
56	POLYAMIDE RESIN		0	0
	POLYETHOXYNONYL PHENOL		0	0
	POLYPROPYLENE	5005-11-1	0	0
	POLYTETRAFLUOROETHYLENE	9001-36-0	0	1
	POTASSIUM ACETATE	137-18-1	0	5
	POTASSIUM BIPHthalate	677-14-7	0	0
	POTASSIUM CARBONATE	524-45-7	0	5
	POTASSIUM HYDROXIDE		0	0
	POTASSIUM MONOCHLORIDE	7447-40-7	0	0
	POTASSIUM PHOSPHATE MONOBASIC		0	0
	PROPANE	74-98-6	0	0
	PROPANE-DIBUTANE		0	1
	RESINS AND PIGMENT (C-5 NOT KNOWN)		0	0
	RESINS AND PIGMENTS		0	0
	ROBIN	8050-09-7	0	1
	SILVER CHLORIDE	7763-90-6	0	0
	SODIUM AMMONIUM		0	0
	SODIUM CARBONATE	5968-11-6	0	0
	SODIUM CHLORIDE	7647-14-5	0	0
	SODIUM HYDROXIDE	1310-73-5	0	0
	SODIUM PHOSPHATE DIASIC	7559-79-4	0	0
	STYRENE ACRYLATE COPOLYMER	100-43-5-97	0	1
	TETRAFLUOROETHYLENE	116-14-5	0	0
	THYOL		0	0
	TOLUENE	109-66-7	0	0
	TOLUOL	108-95-7	0	0
	TRICHLOROFLUOROMETHANE	75-64-7	0	4
	TRIETHANOL AMMONIUM		0	0
	TRIETHYLENE TETRAMINE	111-24-3	0	0
	WATER	7732-18-5	0	1
	WHITE SPIRIT	80065-84-2	0	0
	XYLENE		0	7
	ZINC CHLORIDE		0	0
	ZINC DIALKYL DITHIOPHOSPHATE	18155-95-1	0	1
57	1,1,1 TRICHLOROETHANE	11-95-6	0	20
	2-(2-ETHOXYETHOXY) ETHANOL	111-90-0	0	0
	ACETONE	67-64-1	0	14
	ALLYLOXALINE METHOSULFATE		1	1
	AMMONIUM HYDROXIDE	1336-21-6	0	1
	ANTIOXIDANT	7429-90-5	0	1
	CARBON TETRACHLORIDE	56-23-5	0	26
	CHLOROFORM	67-68-0	0	24
	CITRIC ACID	77-32-2	0	13
	DIBENZYLENE GLYCOL MONOETHYL ETHER	111-90-9	0	0
	DISPERANT, WATER SOLUBLE		0	1
	ETHOXYLATED TALL OIL FATTY ACIDE	61791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	14
	ETHYLENE GLYCOL	107-13-1	0	1
	ETHYLENE GLYCOL MONOBENYL ETHER	111-76-0	0	0

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QUN	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
57	FLUOBORIC ACID	14872-11-0	0	32
	FLUORIDE SALT		0	39
	FORMIC ACID	64-18-6	0	28
	HEXANE	110-52-3	0	6
	HYDROCHLORIC ACID	7647-01-0	0	43
	HYDROFLUORIC ACID	7664-39-3	0	28
	HYDROGEN PEROXIDE	7722-84-1	0	157
	HYDROQUINONE	127-21-7	0	0
	INDICATING DYE		0	1
	INORGANIC CARBONATES		0	1
	INORGANIC OXIDES		0	1
	ISOBUTANE	75-28-5	0	0
	ISOPROPYL ALCOHOL	67-63-0	0	46
	JANUS GREEN B	2269-63-2	0	0
	METHYL ALCOHOL	67-56-1	0	117
	METHYL CHLORIDE	74-87-3	0	1
	METHYLENE CHLORIDE	75-09-2	0	11
	MODIFIED ACRYLIC POLYMERS		0	8
	MONOETHANOLAMINE	141-43-3	0	0
	N-ETHYL-2-PYRROLIDONE	872-50-4	0	8
	NITRIC ACID	7697-37-2	0	138
	NON-HAZARDOUS INGREDIENTS		0	0
	ORTHO-CRESOL		0	0
	PERFLUOROCARBOXYLIC ACID	88508-42-1	0	71
	POLYETHYLENE WAX		0	3
	POLYETHYLENE TEREPHTHALATE		0	1
	SODIUM BICARBONATE	144-55-3	0	37
	SODIUM CARBONATE	2838-11-6	0	0
	SODIUM M-NITROBENZENE SULFONATE	127-62-4	0	16
	STANNOUS SULFATE	7488-55-0	0	45
	SULFURIC ACID	7664-93-9	0	782
	THIOUREA	82-54-6	0	6
	WATER	7732-18-5	0	21
58			0	3,458
	1,1,1-TRICHLOROETHANE	75-75-6	0	244
	1,1,1-TRIMETHYL-2-METHYLENE ETHER		0	0
	1,1,1-TRICHLOROETHANE	75-75-6	0	2
	1,1,1,3-TRICHLORO-1,2,2-TRIFLUOROETHANE	75-17-0	0	81
	1,1,1,3-TRICHLORO-1,2,2-TRIFLUOROETHANE	75-17-0	0	5,572
	1,2-DICHLOROTETRAFLUOROETHANE		0	30
	1-BUTANOL	71-36-7	0	1
	1-METHOXY-2-PROPANOL ACETATE	108-65-6	0	0
	1-METHOXY-2-PROPANOL ACETATE		0	0
	2,6-DI-TERT-BUTYL-P-CRESOL	128-17-0	0	0
	2-(2-ETHOXYETHOXY) ETHANOL	111-90-1	0	1
	2-BUTOXY ETHANOL	111-70-2	0	0
	2-BUTOXYETHANOL	111-78-2	0	0
	2-METHOXY-1-PROPANOL		0	0
	2-METHOXY-2-PROPANOL	2881-20-4	0	8

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVE_POUNDS
58	3-CHLORO-2-METHYL-4-ISOTHIAZOLIN-5-ONE	26172-55-4	0	78
	ACETIC ACID	64-19-7	0	42
	ACETONE	67-64-1	0	418
	ACETOXYMETHYL		0	0
	ACRYLIC POLYMER		0	0
	ACRYLIC RESIN		0	0
	ALCOHOL		0	42
	ALIPHATIC PETROLEUM HYDROCARBON		0	1
	ALIPHATIC SOLVENTS		0	14
	ALKALINE SALTS		0	2
	ALKYL ARYL SULFONATE		0	0
	ALKYLBLENDE YET-SULFATE		0	3
	ALUMINUM SULFATE	13043-01-0	0	0
	AMMONIA	7804-41-7	0	111
	AMMONIUM CHLORIDE	12175-02-9	0	2
	AMMONIUM FLUORIDE	12125-1-5	0	94
	AMMONIUM HYDROXIDE	1336-21-6	0	3
	AMMONIUM OXALATE	6009-70-7	0	0
	ANTIOXIDANT	7429-30-5	0	3
	ARGON	7440-37-1	0	103
	AROMATIC BISAZIDE		0	0
	BARIUM HYDROXIDE	12230-71-6	0	14
	BENZOIC ACID	65-85-0	0	0
	BUTYL ACETATE	123-86-4	0	0
	BUTYL CELLULOSE		0	5
	CALCIUM CARBONATE	1317-65-3	0	92
	CALCIUM CHLORIDE	70137-74-1	0	1
	CALCIUM HYDROXIDE	1305-38-1	0	11
	CALCIUM HYPOCHLORITE	7776-84-3	0	200
	CARBON BLACK	1332-86-4	0	0
	CARBON DIOXIDE		0	3,017
	CARBON DISULFIDE	75-13-6	0	1
	CELLULOSE		0	0
	CELLULOSE ACETATE	111-15-9	0	59
	CERIC SULFATE	13851-82-4	0	2
	DICHLORODIFLUOROMETHANE	75-43-6	0	45
	DICHLOROPENTAFLUOROETHANE	75-12-0	0	61
	DICHLOROTRIFLUOROMETHANE	75-72-5	0	136
	CORROSION INHIBITOR	85395-45-3	0	0
	DIBSOL	1319-77-5	0	1
	CUMENE HYDROPEROXIDE		0	0
	CUPRIC NITRATE	10001-45-0	0	2
	CUPRIC SULFATE	7758-99-7	0	1
	CYCLOIZED POLYISOPRENE	9005-31-5	0	1
	CYCLOHEXANE	110-82-7	0	0
	DIAMOND POWDER	7782-40-0	0	0
	DIATRYACEDUE EARTH	61750-50-2	0	0
	DIBUTYL PHTHALATE	84-74-2	0	0
	DICHLORODIFLUOROMETHANE	75-71-8	0	383

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QUG	CHEMICAL COMPONENT	CAS NUMBER	MAX_POUNDS	QTY_POUNDS
88	METHYLENE GLYCOL MONOETHYL ETHER	111-90-0	0	1
	DIMETHYL ETHER PROPPELLANT	115-10-6	0	0
	DIMETHYL FORMAMIDE	68-12-1	0	1
	SODIUM PEROXYDISULFATE	7759-37-1	0	228
	DISPERANT, WATER SOLUBLE		0	3
	DODECYLBENZENE SULFONIC ACID ISOPROPYLAMINE SALT	26364-03-1	0	1
	EPICRY RESIN		0	0
	ETHANOLAMINE	141-45-3	0	5
	ETHOXYLATED TALL OIL FATTY ACIDS	21791-90-1	0	1
	ETHYL ALCOHOL	64-17-5	0	224
	ETHYL CYANACRYLATE		0	0
	ETHYLENE	100-41-4	0	1
	ETHYLENE DIAMINE	107-13-3	0	14
	ETHYLENE DIAMINE TETRAACETATE		0	0
	ETHYLENE GLYCOL	107-20-3	0	3
	FATTY ACID DERIVATIVE		0	0
	FLOBBORIC ACID	16872-11-0	0	27
	FOSMIC ACID	64-18-3	0	27
	FREON 11		0	400
	GLUTAMATE POLYMER ACTIVATOR		0	0
	GLYCERINE		0	3
	GLYCOL ETHER	107-63-2	0	71
	DM RESIN		0	16
	HELLOX		0	0
	HEXANE	110-54-3	0	0
	HYDROCARBON PROPPELLANT		0	0
	HYDROFLUORIC ACID	7667-01-0	0	0
	HYDROFLUORIC ACID	7664-09-1	0	30
	HYDROGEN CHLORIDE	7647-01-0	0	3
	HYDROGEN PEROXIDE	7722-84-1	0	1,118
	HYDROQUINONE	101-83-6	0	0
	HYDROTREATED PETROLEUM	23742-37-1	0	30
	ISOBUTANE	75-13-5	0	3
	ISOPARAFFINIC HYDROCARBONS		0	0
	ISOPROPYL ALCOHOL	67-10-0	0	500
	LYSINE	3008-00-6	0	21
	KETONE		0	0
	LACTAME	64742-69-8	0	0
	LI-AC		0	4
	MAGNESIUM ALUMINOSILICATE	718-00-5	0	10
	METHANE	75-08-1	0	1
	METHYLCELLULOSE		0	0
	METHYL ALCOHOL	67-56-1	0	721
	METHYL CELLULOSE	109-56-4	0	0
	METHYL ETHYL KETONE	71-93-7	0	0
	METHYL TRIVERTHOXYCELLULOSE		0	0
	METHYLENE CHLORIDE	75-07-2	0	278
	NICA	12011-02-2	0	0
	MINERAL SPIRITS	78-43-6	0	3

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_QTY (05)	AVG_QTY (05)
58	MODIFIED ACRYLIC POLYMERS		0	19
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	1
	MOLYBDENUM DISULFIDE		0	0
	N-CYCLOHEXANOLAMINE	141-47-5	0	57
	N,N-DIALKYLTOULIDINES		0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	N-BUTYL ACETATE	112-66-4	0	6
	N-HEXANE		0	0
	N-METHYL PYRROLIDONE		0	0
	NAPHTHA		0	0
	NAPHTHIC OIL	81743-82-7	0	0
	NITRIC ACID	7497-07-1	0	200
	NITROGEN	7727-07-1	0	115,703
	NITROMETHANE	75-51-5	0	0
	NON-HAZARDOUS RESINS		0	0
	NON-OSHA		0	179
	OIL, WHITE	8042-47-5	0	0
	ORGANIC ACID		0	1
	ORGANIC SALT		0	37
	ORGANIC SOLVENT		0	0
	OXYLABENZOYL POLYETHOXYLATE	8104-87-9	0	59
	OXYGEN	7782-44-7	0	113
	PARAFLUORIC GREASE		0	0
	PERFLUOROHEXAMETHYL, OS-18	84306-42-1	0	875
	PETROLATUM	8009-03-8	0	0
	PHOSPHATE		0	2
	PHOSPHORIC ACID	7664-38-2	0	129
	PINENE RESIN	81-84-5	0	0
	POLY (METHYL METHACRYLATE)		0	0
	POLYALKYLENE GLYCOL	26522-69-4	0	0
	POLYETHOXYMETHYL PHENOL		0	0
	POLYETHYLENE GLYCOL	26522-69-3	0	0
	POLYETHYLENE WAX		0	6
	POLYGLYCOL DIMETHACRYLATE		0	0
	POLYGLYCOL ETHER		0	3
	POTASSIUM BROMIDE	7732-12-7	0	1
	POTASSIUM HYDROXIDE		0	75
	POTASSIUM NITRATE	7737-79-1	0	1
	POTASSIUM PERMANGANATE		0	0
	POTASSIUM PERSULFATE	7707-01-0	0	0
	POTASSIUM SOAP	147-18-1	0	0
	PROPANE	74-98-6	0	2
	PROPANE-1,2-DIISOPYLAKE		0	15
	PROPRIETARY		0	0
	PROPRIETARY INGREDIENT		0	0
	PROPYLENE GLYCOL	57-09-6	0	1
	PROPYLENE GLYCOL MONOMETHYL ETHER	107-90-0	0	58
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-4	0	0

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BLDG	CHEMICAL COMPONENT	CAS NUMBER	*MAX_POUNDS	AVG_POUNDS
58	RESIN	28133-43-2	0	54
	RESINS AND PIGMENT (CAS NOT KNOWN)		0	1
	RESINS AND PIGMENTS		0	1
	ROSIN	8050-19-7	0	3
	SACCHARIN		0	0
	SILABAYLINE		0	0
	SILVER	7440-00-4	0	0
	SILVER CHLORIDE	7762-90-1	0	20
	SODIUM ALUMINO SILICATE	1394-00-5	0	106
	SODIUM AMMONIUM		0	0
	SODIUM CARBONATE	5968-11-6	0	40
	SODIUM CHLORIDE	7347-14-8	0	142
	SODIUM DICARBONATE	7769-12-0	0	1
	SODIUM HYDROXIDE	1310-73-2	0	47
	SODIUM HYDROCHLORIDE	7681-87-9	0	49
	SODIUM M-NITROBENZENESULFONATE	127-68-4	0	16
	SOLVENT		0	35
	STANNOUS SULFATE	7338-35-3	0	1
	STEARIC ACID	57-11-4	0	14
	SULFAMIC ACID		0	0
	SULFURIC ACID	7664-93-9	0	2,072
	SURFACTANT		0	1
	SYNTHETIC RUBBER		0	0
	TELOMER OF TETRAFLUOROETHANE		0	1
	TELOMER OF TETRAFLUOROETHYLENE		0	0
	TERPENE RESIN	7419-30-7	0	0
	TERTIARY AMINE SOLVENT		0	2
	TETRAFLUOROETHANE	75-72-0	0	240
	THIOUREA	62-56-8	0	5
	TOLUENE	108-88-3	0	32
	TOLUOL	108-88-3	0	2
	TRADE SECRET/GENERIC	74-26-2	0	140
	TRICHLOROFLUOROETHANE	78-64-7	0	35
	TRIBRYANOL AMMONIUM		0	0
	TRIDETHYLENE SULFOL DIMETHYL ETHER	110-73-6	0	0
	TRIFLUOROETHANE	78-46-7	0	7
	TURPENTINE	8006-69-7	0	2
	V. K. & P. NAPHTHA	14742-69-8	0	0
	WATER	7732-18-5	0	39
	XYLENE		0	33
	ZINC DIALKYL DITHIOPHOSPHATE	24564-95-0	0	0
59			0	2,172
	1,1,1 TRICHLOROETHANE	17-33-6	0	19
	1,1,1 TRIMETHYL-4-TRIMETHYL ETHER		0	6
	1,1,1-TRICHLOROETHANE	71-35-6	0	2
	1,1,1-TRICHLORO-1,1,2,2-TRIFLUOROETHANE	78-17-1	0	2,695
	1,2-DICHLOROBENZENE	78-39-1	0	43
	1-BUTANOL	71-36-3	0	1
	1-METHOXY-2-PROPANOL ACETATE	105-43-6	0	0

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59	2-(2-ETHOXYETHOXY) ETHANOL	111-96-0	0	0
	2-METHYL-4-ISOBUTYRALDOL-3-ONE	2681-20-4	0	19
	5-CHLORO-2-METHYL-4-ISOTIAZOLIN-3-ONE	26170-35-4	0	102
	ACETIC ACID	64-19-7	0	15
	ACETONE	67-64-1	0	305
	ACRYLIC RESIN		0	0
	ACTIVATED CARBON	7440-44-1	0	3,450
	ACTIVATED CHARCOAL		0	0
	ALCOHOL		0	0
	ALIPHATIC PETROLEUM HYDROCARBON		0	0
	ALKYL ARYL SULFONATE		0	0
	ALKYL ARYL SULFONIC ACID		0	0
	ALKYLOLAMINE METHOSULFATE		0	1
	ALUMINA		0	4
	AMINETHYL PROPANOL	124-66-8	0	7
	AMMONIA	78-04-1	0	115
	AMMONIUM FLUORIDE	12125-1-5	0	294
	AMMONIUM HYDROXIDE	1336-21-6	0	347
	ARGON	7440-37-1	0	282
	BENZENE	71-42-2	0	0
	BORON TRICHLORIDE	10274-04-5	0	100
	BUTYL ACETATE	123-86-4	0	0
	BUTYL CELLULOSE		0	3
	BUTYL CELLULOSE ACETATE	112-07-2	0	2
	CARBON BLACK	1333-38-4	0	0
	CARBON DIOXIDE		0	0
	CARBON TETRACHLORIDE	56-23-5	0	252
	CELLULOSE ACETATE	111-15-9	0	766
	CERIC SULFATE	13599-52-4	0	0
	CHLORINATED BENZENE		0	0
	CHLORINATED HYDROCARBONS		0	31
	CHLORINE	7782-50-5	0	169
	CHLORODIFLUOROMETHANE	75-45-6	0	40
	CHLOROPENTAFLUOROETHANE	75-15-3	0	100
	CITRIC ACID	77-16-9	0	300
	CORROSION INHIBITOR	85595-45-7	0	1
	CRESOL	1319-07-3	0	27
	CRESOL-FORMALDEHYDE NOVALAK RESIN	1016-83-5	0	0
	DIACETONE ALCOHOL	123-42-2	0	11
	DIACRYLPHENOLQUINONE SENSITIZER		0	0
	DIBUTYL SEBACATE	64-74-2	0	0
	DICHLORODIFLUOROMETHANE	75-71-5	0	5
	DICHLOROSILANE	6109-53-0	0	270
	DIETHYLAMINEETHANOL	100-37-3	0	24
	DIETHYLENE GLYCOL MONOMETHYL ETHER	111-90-0	0	0
	DODECYLBENZENE SULFONIC ACID	27174-07-0	0	35
	DPO SALT		0	0
	ETHXYLATED TALL OIL FATTY ACIDS	11791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	1

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BLDE	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVE_POUNDS
59	ETHYLBENZENE	100-41-4	0	0
	ETHYLENE DIAMINE TETRAACETATE		0	0
	ETHYLENE DIAMINE TETRAACETIC ACID	60-09-4	0	0
	ETHYLENE GLYCOL	107-21-1	0	2,007
	ETHYLENE GLYCOL MONOCRYTIC ETHER	111-76-2	0	0
	FATTY ACID DERIVATIVE		0	0
	FREON 116		0	475
	FREON 23		0	350
	GLYCERINE		0	1,172
	HELIUM		0	22
	HMS		0	52
	HYDROCARBON PROPELLANT		0	0
	HYDROCHLORIC ACID	7647-01-0	0	3,474
	HYDROFLUORIC ACID	7664-39-3	0	225
	HYDROGEN CHLORIDE	7647-01-0	0	277
	HYDROGEN PEROXIDE	7722-84-1	0	253
	HYDROXY BENZENE		0	20
	INORGANIC ACID		0	0
	ISOBUTANE	75-28-5	0	0
	ISOPROPYL ALCOHOL	67-63-0	0	32
	KETONE		0	0
	LEAD	7439-92-1	0	0
	MAGNESIUM ALUMINOSILICATE	315-00-9	0	30
	METHYL ALCOHOL	67-58-1	0	435
	METHYL PHENYL ETHER	100-66-0	0	2
	METHYLENE D-CHLORIDE	75-09-2	0	1
	MINERAL SPIRITS	75-45-6	0	0
	MODIFIED ACRYLIC POLYMERS		0	5
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	POLYBENZYL DISULFIDE	1517-33-5	0	3
	POLYBENZYL DISULFITE		0	0
	PICNETHANOLAMINE	141-43-5	0	0
	PORPHOLINE		0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	N-BUTYL ACETATE	123-86-4	0	43
	N-BUTYL ALCOHOL		0	1
	N-ETHYL PYRROLIDONE		0	328
	N-ETHYLPYRROLIDONE	872-50-4	0	32
	NAPHTHA		0	0
	NAPHTHENIC OIL	64742-52-3	0	0
	NITRIC ACID	7697-57-1	0	765
	NITROGEN	7727-37-2	0	151,187
	NITROGEN TRIFLUORIDE	7783-84-3	0	53
	NITROUS OXIDE	10024-97-2	0	150
	NON-8SHA		0	483
	NON-8SHA PROPRIETARY		0	298
	OCTYLPHENOL POLYETHOXYLATE	9034-87-9	0	35
	OXYGEN	7782-44-7	0	18,507

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_FOUNDS
59	P-TOLUENE SULFONIC ACID		0	30
	PARAFFINIC PETROLEUM DISTILLATES	64742-63-0	0	7
	PENACLOLORGETHYLENE		0	51
	PHOSPHINE	7803-51-2	0	15
	PHOSPHORIC ACID	7644-36-2	0	96
	PHOSPHOROUS DIOXIDE	7719-12-2	0	5
	PHOSPHOROUS RED POWDER	7723-14-0	0	1
	PHOTOACTIVE COMPOUND		0	21
	POLY VINYL ALCOHOL		0	0
	POLYETHOXYNONYL PHENOL		0	0
	POLYETHYLENE WAX		0	2
	POTASSIUM DIOCHROMATE	7739-50-9	0	6
	POTASSIUM HYDROXIDE		0	131
	POTASSIUM IODATE		0	0
	POTASSIUM PHOSPHATE	7778-47-0	0	0
	PROPANE-ISOBUTANE		0	1
	PROPRIETARY INGREDIENT		0	0
	PROPYLENE GLYCOL	57-55-6	0	90
	PROPYLENE GLYCOL MONOMETHYL ETHER	147-55-2	0	70
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	138-65-6	0	178
	RESIN	25133-46-0	0	21
	RESIN, POLYESTER		0	0
	SILANAXINE		0	6
	SILANE	7803-62-5	0	101
	SILVER	7440-22-4	0	0
	SODIUM ARYONIUM		0	0
	SODIUM CARBONATE	3968-11-6	0	0
	SODIUM CITRATE	144-37-2	0	3
	SODIUM HYDROXIDE	1310-77-3	0	4,930
	SODIUM HYPOCHLORITE	7681-52-9	0	334
	SODIUM METABISULFITE	7681-57-4	0	12
	SODIUM MOLYBDATE	7631-75-0	0	11
	SODIUM NITRITE	7632-00-0	0	441
	SODIUM PHOSPHATE		0	0
	SODIUM SULFITE	7787-82-1	0	0
	SODIUM TETRABORATE	12045-28-4	0	67
	SODIUM TOLYTRIAZOLE	64665-57-2	0	35
	SOLID PIGMENT		0	0
	SOLVENT		0	0
	SULFANILAMIDE		0	0
	SULFUR HEXAFLUORIDE	2551-62-4	0	375
	SULFURIC ACID	7664-95-9	0	4,661
	SURFACTANT		0	0
	TELOMER OF TETRAFLUOROETHANE		0	0
	TEOS	78-10-4	0	94
	TETRAFLUOROMETHANE	75-75-0	0	150
	TETRAMETHYL AMMONIUM HYDROXIDE	75-58-2	0	25
	TETRAMETHYLAMMONIUM HYDROXIDE	75-58-2	0	3
	TOLUENE	108-88-3	0	12

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QLOG	CHEMICAL/COMPONENT	QAS NUMBER	MAX_POUNDS	AVG_POUNDS
59	TOLUOL	108-88-7	0	0
	TRICHLOROACETIC ACID	78-90-9	0	0
	TRIS-TYANDL AMMONIUM		0	0
	TRIMETHYL BORATE	121-43-7	0	8
	TRIMETHYL PHOSPHITE	121-45-9	0	8
	TRISODIUM PHOSPHATE	12037-67-4	0	700
	WATER	7732-18-8	0	256
	XYLENE		0	30
	ZINC DIALKYL DITHIOPHOSPHATE	26566-95-0	0	0
60			0	93
	1,1,1 TRICHLOROETHANE	17-55-6	0	3
	1,1,2-TRICHLORO-1,1,2,2-TETRACHLOROETHANE	78-13-1	0	84
	2-METHYL-4-ISOTHIAZOLIN-5-ONE	2492-20-4	0	8
	5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-5-ONE	24172-55-4	0	30
	5-METHYL-2-HEXANONE	110-12-3	0	735
	ACETIC ACID	64-19-7	0	45
	ACETONE	67-64-1	0	79
	AMMONIUM CHLORIDE	12125-02-9	0	0
	BROMOPRESOL GREEN		0	0
	CARBON DIOXIDE		0	0
	CELLOSOLVE ACETATE	111-15-9	0	24
	CERIC AMMONIUM NITRATE	14774-21-3	0	14
	CHROMIC ACID	1333-82-0	0	2
	CRESOL	1319-77-3	0	0
	DICHLORODIFLUOROMETHANE	75-71-3	0	0
	ETHYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL CYANOACRYLATE		0	0
	FREDN 11		0	200
	GLYCOLIC ACID	79-14-1	0	0
	HELIUM		0	47
	HYDROGEN PEROXIDE	7732-34-1	0	0
	HYDROQUINONE	123-31-9	0	0
	INHIBITOR		0	0
	ISOBUTANE	75-28-5	0	0
	ISOPROPYL ALCOHOL	67-63-0	0	303
	METHYL ALCOHOL	67-56-1	0	41
	METHYL PROPYL KETONE	107-97-9	0	48
	MORBETHANOLAMINE	141-43-5	0	0
	N-ALKYL DIMETHYL BENZYL		0	0
	N-BUTYL ACETATE	123-88-4	0	3
	NITRIC ACID	7697-37-2	0	7
	NITROGEN	7727-37-2	0	214
	NITROMETHANE	75-52-5	0	0
	NON-OSHA		0	34
	ORTHO-PHENOL POLYETHACRYLATE	9004-27-9	0	2
	POLY (METHYL METHACRYLATE)		0	0
	POTASSIUM HYDROXIDE		0	85
	SODIUM CARBONATE	5065-11-6	0	0
	SODIUM HYPOCHLORITE	7621-52-9	0	1

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BLDE	CHEMICAL/COMPONENT	CAS NUMBER	XAC_PERCENT	A.G.
60	SULFURIC ACID	7664-93-2	0	
	SURFACTANT		0	
	TEFLONER OF TETRAFLUOROETHYLENE		0	
	TRICHLOROFLUOROMETHANE	75-64-9	0	
	WATER	7732-18-8	0	
	WETTING AGENT		0	
	XYLENE		0	
61	1,1,1 TRICHLOROETHANE	17-55-6	0	
	1,1,1 TRICHLORO-2,2,2-TRIMETHYL ETHER		0	
	1,1,2-TRICHLORO-1,1,2,2-TETRAFLUROETHANE	76-13-1	0	
	1,2,4 TRICHLOROETHANE	12-60-1	0	
	1,2-DICHLOROETHENE	45-00-1	0	
	2,4,6-TRIS(DIMETHYLAMINO)ETHYLPHENOL	145-74-3	0	
	2-ETHOXY ETHANOL	111-70-2	0	
	2-BUTOXYETHANOL	111-75-2	0	
	2-ETHOXYETHYL ACETATE	111-15-9	0	
	4,4'-ISOPROPYLDIENEDIPHENOL EPICHLOROHYDRIN RESIN	25048-98-6	0	
	5-METHYL-2-HEXANONE	110-12-3	0	
	ACETIC ACID	64-19-7	0	
	ACETONE	67-64-1	0	
	ACTIVATED ALUMINA		0	
	ALCOHOL		0	
	ALKALINE SALTS		0	
	ALKANOLAMINE		0	
	ALKYL ARYL SULFONATE		0	
	ALKYL ARYL SULFONIC ACID		0	
	AMINE MIXTURES		0	
	AMMONIA	7664-41-7	0	
	AMMONIUM FLUORIDE	12125-11-8	0	
	AMMONIUM HYDROXIDE	1336-21-6	0	10
	AMMONIUM PERBOLATE	7727-34-0	0	570
	AMORPHOUS SILICA		0	0
	ANTIOXIDANT	7428-90-5	0	0
	ARSEN	7440-07-1	0	
	AROMATIC BISAZIDE		0	
	AROMATIC PHENOL		0	
	AROMATIC C9-C12		0	
	ASPIRINE	7784-42-1	0	
	BORIC ACID	10043-35-3	0	
	BORON TRIBROMIDE	10294-33-4	0	
	BORON TRIFLUORIDE	7637-17-3	0	
	BUTYL ACETATE	123-84-4	0	
	CARBON BLACK	1333-91-4	0	
	CARBON DIOXIDE		0	
	CARBON TETRACHLORIDE	56-23-5	0	
	CELLULOSE ACETATE	111-15-9	0	
	CERIC AMMONIUM ALTRATE	14774-01-3	0	
	CERIC SULFATE	13590-60-4	0	

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BUDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
81	CHLORINATED BENZENE		0	0
	CHLORINATED HYDROCARBONS		0	1,341
	CHLORO-DIFLUOROMETHANE	75-45-3	0	390
	CHLOROPENTAFLUOROETHANE	76-13-3	0	20
	CHROMIC ACID	1333-82-0	0	2
	CHROMIUM TRIOXIDE		0	2
	CRESOL	1319-77-3	0	320
	CRESOL-FORMALDEHYDE RESIN	27029-78-1	0	0
	CRESOL-FORMALDEHYDE NOVALAK RESIN	9016-83-5	0	1
	CRESOL-FORMALDEHYDE RESIN		0	1
	CYCLIZED POLYISOPRENE	3018-31-0	0	128
	CYCLOPARAFFINS		0	1,341
	DIACETONE ALCOHOL	123-42-0	0	11
	DIATYMOEUS EARTH	61790-33-0	0	0
	DIACRYLATE-7-ODUIMINE SENSITIZER		0	1
	DICHLORO-DIFLUOROMETHANE	75-71-2	0	100
	DICHLOROSILANE	4109-56-0	0	350
	DIETHANOLAMINE	111-92-2	0	1,846
	DISPERANT, WATER SOLUBLE		0	2
	DODECYLBENZENE SULFONIC ACID	27176-97-0	0	2,408
	DYE		0	0
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	124
	ETHYL BENZENE	100-41-4	0	0
	ETHYL CYANOACRYLATE		0	0
	ETHYLBENZENE	100-41-4	0	355
	ETHYLENE	74-85-1	0	0
	ETHYLENE DIAMINE TETRAACETATE		0	0
	ETHYLENE GLYCOL	107-13-1	0	1,254
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-75-0	0	0
	FLOORING ACID	16872-11-0	0	0
	FLUORIDE SALT		0	0
	FORMIC ACID	64-18-6	0	0
	FREON 11		0	210
	GLYCOL ETHER	107-63-2	0	12
	GUM RESIN		0	3
	HELIUM		0	7
	H2O2		0	328
	HYDROCHLORIC ACID	7647-01-1	0	205
	HYDROFINISHED PARAFFINIC PETROLEUM OIL	14742-54-7	0	399
	HYDROFLUORIC ACID	7664-39-1	0	2,400
	HYDROGEN	1333-74-0	0	34
	HYDROGEN CHLORIDE	7647-01-1	0	240
	HYDROGEN PEROXIDE	7722-84-1	0	3,227
	HYDROQUINONE	123-31-9	0	0
	HYDROXY BENZENE		0	593
	INDICATING DYE		0	1
	INORGANIC CARBONATES		0	1
	INORGANIC OXIDES		0	1

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QLOS	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVE_POUNDS
91	ISOBUTANE	75-28-5	0	0
	ISOPARAFFINIC HYDROCARBONS		0	16
	ISOPROPYL ALCOHOL	67-58-0	0	2,108
	JANUS GREEN E	2889-83-2	0	0
	KETONE		0	1
	LITHIUM COMPOUND		0	161
	METHYL ALCOHOL	67-56-1	0	3,000
	METHYL CELLULOSE	109-26-4	0	14
	METHYL PROPYL KETONE	107-97-9	0	20
	METHYLENE CHLORIDE	75-09-2	0	15
	MINERAL SPIRITS	75-45-6	0	2
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MONOETHANOLAMINE	141-43-5	0	1,848
	MORPHOLINE		0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYL BENZYL AMMONIUM SALTS		0	0
	N-BUTYL ACETATE	123-86-4	0	2,384
	N-METHYL PYRROLIDONE		0	983
	N-METHYLPYRROLIDONE	672-80-4	0	338
	NAPHTHA		0	0
	NAPHTHOQUINONE DIAZIDE	58510-93-0	0	0
	NAPHTHOQUINONE DIAZIDE	58510-93-0	0	0
	NITRIC ACID	7697-37-2	0	2,104
	NITROGEN	7727-37-2	0	578
	NITROUS OXIDE	10024-97-2	0	150
	NON-ISHA		0	437
	NON-ISHA PROPRIETARY		0	36
	OIL, REFINED MINERAL		0	379
	OIL, WHITE	8042-47-8	0	0
	OXYPHENOL POLYETHOXYLATE	9004-97-9	0	127
	OXYGEN	7782-44-7	0	47
	PARAFFINS		0	54
	PARAFFINIC GREASE		0	0
	PERCHLOROETHYLENE		0	1,542
	PERFLUOROCHEMICAL, C5-18	86583-42-1	0	363
	PHOSPHATE		0	13
	PHOSPHINE	7803-31-2	0	0
	PHOSPHORIC ACID	7664-38-1	0	1,367
	PHOSPHOROUS OXYCHLORIDE	7719-12-2	0	36
	PHOTOACTIVE COMPOUND		0	13
	PIGMENTS		0	1,063
	POLY (METHYL METHACRYLATE)		0	0
	POLYETHOXYNONYL PHENOL		0	0
	POLYGLYCOL ETHER		0	2
	POLYMERCAPTAI		0	49
	POTASSIUM HYDRATE		0	113
	POTASSIUM HYDROXIDE		0	2,386
	PROPANE	74-78-6	0	5
	PROPANE-ISOBUTANE		0	15

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QUG	CHEMICAL/COMPONENT	QUG NUMBER	MAX_POUNDS	AVG_POUNDS
81	PROPYLENE GLYCOL	57-85-6	0	948
	PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-3	0	1,115
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	0	737
	QUATERNARY AMMONIUM HYDROXIDE		0	0
	RESIN	15153-95-2	0	17
	RESINS AND PIGMENT (CAS NOT KNOWN)		0	5
	RESINS AND PIGMENTS		0	6
	SILANAMINE		0	26
	SILANE	7800-62-8	0	12
	SILICON DIOXIDE		0	2,312
	SILICON TETRACHLORIDE	10028-04-7	0	3,000
	SILVER	7440-22-4	0	1
	SODIUM AMMONIUM		0	0
	SODIUM BISULFATE	7581-38-1	0	0
	SODIUM CARBONATE	5966-11-8	0	0
	SODIUM 4-NITROBENZENESULFONATE	127-65-4	0	0
	SOLID PIGMENT		0	0
	SOLVENT		0	1
	STANNOUS SULFATE	7489-85-0	0	17
	STANDARD SOLVENT	8052-41-3	0	1,749
	STYRENE/ACRYLATE POLYMER	25013-39-2	0	33,673
	SULFUR HEXAFLUORIDE	2551-12-4	0	345
	SULFURIC ACID	7664-93-9	0	15,421
	SURFACTANT		0	0
	TELOMER OF TETRAFLUOROETHYLENE		0	0
	TETRAFLUOROMETHANE	75-73-0	0	107
	TETRAMETHYL AMMONIUM HYDROXIDE	75-59-2	0	167
	TETRAMETHYLAMMONIUM HYDROXIDE	75-59-2	0	33
	THIOUREA	62-56-6	0	0
	TOLUENE	108-88-7	0	5
	TOLUOL	108-88-7	0	2
	TRADE SECRET/GENERIC /	74-86-2	0	50
	TRICHLOROPOLYMERETHANE	75-34-9	0	0
	TRIETHANOLAMINE		0	865
	TRIETHANOL AMMONIUM		0	0
	WATER	7732-18-8	0	10,505
	XYLENE		0	3,132
82			0	1,440
	1,1,1 TRICHLOROETHANE	17-35-6	0	58
	1,1,1 TRIMETHYL-N-TRIMETHYL ETHER		0	0
	1,1,1-TRICHLOROETHANE	71-55-6	0	3
	1,1,2-TRICHLORO-1,1,2,2-TETRAFLUOROETHANE	76-13-1	0	3
	1,1,2-TRICHLORO-1,1,2,2-TRIFLUOROETHANE	76-13-1	0	1,549
	1,2,4 TRICHLOROBENZENE	100-82-1	0	3
	1,2-PROPYLENE DIAMINE TETRAACETIC ACID	1979-36-2	0	1
	1-ETHOXY-2-PROPANOL ACETATE	102-55-6	0	0
	2,4,6-TRIMETHYLANILINOETHYLPHENOL	145-14-5	0	0
	2,6-DIETHYL-1-HEXYNE-3-OL	107-84-1	0	0
	4,4'-ISOPROPYLIDENEISPHENOL EPICHLOROHYDRIN RESIN	25046-72-6	0	0

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BLEB	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVE_POUNDS
62	4-N-ETHYL-N-2-METHANESULFONYLAMINOETHYL-2-METHYLPHENYLENE	25546-71-3	0	0
	4-BUTYROLACETONE	78-48-0	0	0
	ACETIC ACID	64-19-7	0	36
	ACETONE	67-64-1	0	62
	ACRYLIC RESIN		0	0
	ALCOHOL		0	0
	ALKYL ARYL SULFONATE		0	0
	ALUMINUM CHLORIDE	7446-70-0	0	1
	AMMONIA	7664-41-7	0	100
	AMMONIUM (ETHYLENEDINITRILE)TETRAACETO-TERPATE (1:1)		0	23
	AMMONIUM ACETATE	501-61-5	0	1
	AMMONIUM BROMIDE	12124-97-9	0	0
	AMMONIUM FERRIC ETHYLENEDIAMINETETRAACETIC ACID	21285-50-9	0	3
	AMMONIUM FERRIC PROPYLENEDIAMINETETRAACETIC ACID		0	1
	AMMONIUM FLUORIDE	13125-1-5	0	31
	AMMONIUM HYDROXIDE	1336-21-8	0	76
	AMMONIUM PERSULFATE	7727-54-0	0	12
	AMMONIUM THIOSULFATE	7783-18-8	0	21
	ANTIOXIDANT	7429-90-5	0	0
	ARGON	7440-37-1	0	102
	AROMATIC PHENOL		0	2
	AROMATIC C9-C12		0	2
	BENZENE	71-43-1	0	4
	BENZIDINE DIHYDROCHLORIDE		0	0
	BISPHENOL A	80-51-7	0	0
	BROMOCRESOL GREEN		0	1
	BUTANOL	71-36-3	0	0
	BUTYL ACETATE	123-86-4	0	0
	BUTYL CELLOSOLVE		0	0
	BUTYL CELLOSOLVE ACETATE	112-07-2	0	1
	CALCIUM CARBONATE	1317-65-3	0	0
	CALCIUM SULFATE, ANHYDROUS		0	1
	CARBON BLACK	1333-86-4	0	8
	CARBON DIOXIDE		0	1,447
	CARBON TETRACHLORIDE	56-23-5	0	33
	CELLOSOLVE		0	3
	CELLOSOLVE ACETATE	111-15-9	0	107
	CERIC AMMONIUM NITRATE	13774-21-8	0	1
	CERIC SULFATE	13590-82-4	0	1
	CHLOROTHENE V6		0	459
	CITRIC ACID	1333-82-0	0	1
	CITRIC ACID	77-02-9	0	1
	CRESOL-FORMALDEHYDE RESIN		0	2
	CUPRIC SULFATE	7755-98-7	0	1
	CYANIDE	57-12-8	0	0
	CYCLOHEXANE	110-82-7	0	0
	CYCLOHEXANES		0	2
	DIATOMACEOUS EARTH	11790-35-2	0	0
	DIBUTYL PHTHALATE	84-74-1	0	0

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SLUG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
52	DICHLORO-DIFLUOROMETHANE	75-71-8	0	59
	DICHLOROSILANE	6119-96-1	0	30
	DIBENZOYLAMINE SULFUR DIOXIDE	62149-47-1	0	4
	DIETHYLENE GLYCOL MONOBUTYL ETHER	112-14-1	0	11
	DIETHYL ETHER PROPELLANT	112-10-3	0	0
	DIETHYL FORMAMIDE	62-10-2	0	9
	DYME	74-94-2	0	1
	DODCYLBENZENE SULFONIC ACID	27176-87-0	0	1
	DODECYLBENZENE SULFONIC ACID ISOPROPYLAMINE SALT	28234-08-1	0	0
	ETHACOL		0	16
	ETHANOLAMINE	141-43-3	0	5
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	1
	ETHYL ALCOHOL	64-17-5	0	28
	ETHYL CYANOACRYLATE		0	0
	ETHYLBENZENE	100-41-4	0	0
	ETHYLENE DIAMINE	107-13-3	0	7
	ETHYLENE DIAMINE TETRAACETATE		0	0
	ETHYLENE GLYCOL	107-13-1	0	7
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-0	0	0
	ETHYLENE GLYCOL MONOMETHYL ETHER	115-91-4	0	8
	ETHYLENEDIAMINE	107-13-3	0	8
	FATTY ACID DERIVATIVE		0	0
	FERRIC CHLORIDE	7705-08-0	0	1
	FERRICYANIDE COMPOUND	30745-15-2	0	8
	FERROUS CHLORIDE	7758-94-1	0	1
	FORMALDEHYDE	50-00-0	0	1
	GLYCERINE		0	0
	GLYCOL		0	0
	GOLD CHLORIDE		0	0
	GOLD CYANIDE		0	0
	GRAPHITE	7782-42-8	0	0
	GELULIN		0	37
	HEPTANE	110-52-1	0	6
	HEXAENE GLYCOL	107-11-7	0	0
	HEXANE	110-54-3	0	0
	HXDE		0	7
	HYDROCARBON PROPELLANT		0	0
	HYDROFLUORIC ACID	7664-39-3	0	53
	HYDROFLUORIC ACID	7664-39-3	0	50
	HYDROGEN	1333-74-0	0	2
	HYDROGEN CHLORIDE	7647-01-0	0	2
	HYDROGEN PEROXIDE	7722-84-1	0	34
	HYDROXYLONE	133-71-9	0	12
	INHIBITOR		0	0
	IODINE	7553-56-0	0	6
	IPDS	7433-89-6	0	35
	IRON OXIDE	1343-07-1	0	0
	ISOBUTANE	58-08-3	0	6
	ISOPARAFFINIC HYDROCARBONS		0	0

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
62	ISOPROPYL ALCOHOL	67-63-0	0	64
	NEROSINE	8008-10-4	0	8
	KETONE		0	0
	LEAD	7439-92-1	0	10
	LEAD OXIDE		0	0
	LP6 PROPELLANT	62476-85-7	0	1
	MARBLE REAGENT		0	2
	METHYL ALCOHOL	67-56-1	0	102
	METHYL CHLORIDE	74-87-3	0	0
	METHYL ETHYL KETONE	78-93-3	0	0
	METHYLBIS (2-HYDROXYETHYL) AMMONIUM NITRATE	71457-00-8	0	0
	METHYLENE CHLORIDE	75-09-2	0	2
	MINERAL SPIRITS	75-45-6	0	0
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MONOETHANOLAMINE	141-45-5	0	0
	N-ALKYL DIMETHYL BENZYL		0	1
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	N-BUTYL ACETATE	123-86-4	0	15
	N-HEXANE		0	0
	N-METHYL PYRROLIDONE		0	17
	NAPHTHA		0	0
	NAPHTHOLIC ACID DIAZIDE	68510-93-0	0	1
	NICKEL		0	7
	NICKEL SULFATE	7786-81-4	0	1
	NITRIC ACID	7697-37-2	0	130
	NITROGEN	7727-37-2	0	1,151
	NITROGEN TRIFLUORIDE	7755-54-2	0	7
	NITROMETHANE	75-52-5	0	0
	NITROUS OXIDE	10024-57-2	0	50
	NON-OSHA PROPRIETARY		0	17
	OIL, WHITE	8042-47-5	0	0
	ORGANIC RESIN		0	0
	OXYLPHENOL POLYETHOXYLATE	8004-87-9	0	0
	OXYGEN	7782-44-7	0	147
	P-METHYLAMINOPHENOL SULFATE	55-55-0	0	0
	P-TOLUENE SULFONIC ACID		0	2
	PALLADIUM		0	25
	PALLADIUM CHLORIDE	7647-10-1	0	0
	PARAFFINS		0	0
	PARAFFINIC GREASE		0	0
	PETROLOGOCHEMICAL, OSHA	86506-42-1	0	8
	PETROLEUM ETHER	8002-00-4	0	5
	PETROLEUM SOLVENT	64142-47-8	0	0
	PHOSPHINE	7503-51-2	0	1
	PHOSPHORIC ACID	7664-38-1	0	161
	PHOTOACTIVE COMPOUND		0	0
	PIGMENTS		0	0
	POLY (METHYL METHACRYLATE)		0	0

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BLOG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
62	TERPENE RESIN	7429-91-5	0	0
	TETRAFLUOROMETHANE	75-70-1	0	140
	TETRAMETHYL AMMONIUM HYDROXIDE	75-35-2	0	2
	THYMOL		0	0
	TIN	7440-31-5	0	16
	TOLUENE	108-88-3	0	74
	TOLUOL	108-88-3	0	0
	TRADE SECRET/GENERIC/	75-86-2	0	20
	TRICHLOROFLUOROMETHANE	75-64-9	0	2
	TRIETHANOL AMMONIUM		0	0
	TRIMETHYL BORATE	121-43-7	0	0
	TUNGSTEN HEXAFLUORIDE		0	15
	TUNGSTEN POWDER		0	0
	VINYL CYCLOHEXENE DIOXIDE	106-97-6	0	0
	WATER	7732-18-5	0	579
	XYLENE		0	74
	ZINC CHLORIDE		0	1
63			0	5,918
	1,1,1 TRICHLOROETHANE	17-55-6	0	69
	1,1,1 TRIMETHYL-N-TOLYETHYL ETHER		0	2
	1,1,1-TRICHLOROETHANE	71-55-5	0	2
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	5,960
	2-METHYL-4-ISOTHIAZOLIN-3-ONE	2632-20-4	0	5
	5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	26172-55-4	0	25
	ACETIC ACID	64-19-7	0	6
	ACETONE	57-64-1	0	269
	ALCOHOL		0	0
	ALKALINE SALTS		0	2
	ALGANOLAMINE		0	2
	AMMONIUM FLUORIDE	12125-11-9	0	16
	AMMONIUM HYDROXIDE	1336-21-4	0	113
	ARGON	7440-37-1	0	135
	ARSINE	7764-42-1	0	0
	BARIUM HYDROXIDE	10230-71-6	0	0
	BENZENE	71-43-2	0	1
	BORON TRIBROMIDE	10294-33-4	0	3
	BORON TRICHLORIDE	10294-34-5	0	100
	BORON TRIFLUORIDE	7637-07-1	0	1
	BROMOCRESOL GREEN		0	0
	CARBON DIOXIDE		0	710
	CELLOSOLVE		0	0
	CELLOSOLVE ACETATE	111-15-9	0	233
	CERIC SULFATE	13290-82-4	0	1
	CHLORINE	7782-50-5	0	100
	CHLORODIFLUOROMETHANE	75-45-5	0	16
	CHLOROPETHYLATED ALPHA METHYL POLYSTYRENE		0	0
	CHLOROPENTAFLUOROETHANE	76-13-3	0	13
	CHLOROTRIFLUOROMETHANE	75-70-9	0	6
	CONDUCTING ADHES		0	15

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SLDG	CHEMICAL/COMPONENT	PAS NUMBER	MAX_POUNDS	AWE_POUNDS
53	CONDUCTING SALTS		0	0
	CREOSOL-FORMALDEHYDE NOVALAK RESIN	7015-85-5	0	0
	DIACETONE ALCOHOL	123-40-0	0	0
	DIAZOMACEOUS EARTH	51790-55-2	0	0
	DIAZONAP-THIOQUINONE SENSITIZER		0	0
	DIBUTYL-PHTHALATE	84-74-2	0	0
	DICHLORODIFLUOROMETHANE	75-71-9	0	1
	ETHOXYLATED TALL OIL FATTY ACIDS	81791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	208
	ETHYL ALCOHOL PURE		0	1
	ETHYL CYANOACRYLATE		0	0
	ETHYLENE GLYCOL	107-21-1	0	55
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0	0
	ETHYLENE GLYCOL MONOMETHYL ETHER	109-86-4	0	21
	FOMBLIN Y 3678 L VAC	89991-87-9	0	1
	FORMALDEHYDE	50-00-0	0	0
	FREON 23		0	70
	GLYCEROL		0	1
	GLYCOL		0	159
	GLYCOL ESTER		0	2
	GLYCOL ETHER	107-78-2	0	4
	GUM RESIN		0	1
	HELIUM		0	9
	HXDE		0	15
	HYDROCHLORIC ACID	7647-01-0	0	381
	HYDROFLUORIC ACID	7664-39-3	0	115
	HYDROGEN	1333-74-0	0	55,394
	HYDROGEN CHLORIDE	7647-01-0	0	1,703
	HYDROGEN PEROXIDE	7722-84-1	0	89
	HYDROQUINONE	108-51-7	0	0
	INHIBITOR		0	0
	ISOBUTANE	75-28-5	0	0
	ISOPROPYL ACETATE		0	4
	ISOPROPYL ALCOHOL	67-63-0	0	656
	KETONE		0	0
	LEAD OXIDE		0	0
	MAGNESIUM ALUMINOSILICATE	016-00-9	0	3
	METHYL ALCOHOL	67-58-1	0	146
	METHYL CELLOSOLVE	109-86-4	0	2
	METHYL ETHYL KETONE	78-53-3	0	40
	METHYL ISOBUTYL KETONE	108-10-1	0	81
	METHYL PHENYL ETHER	100-66-3	0	10
	METHYLENE CHLORIDE	75-09-2	0	0
	MINERAL SPIRITS	75-45-6	0	0
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MONOETHANOLAMINE	141-43-8	0	3
	MORPHOLINE		0	0
	N-ALKYL DIMETHYL BENZYL		0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0

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SLDG	CHEMICAL/COMPONENT	QAS NUMBER	MAX_POUNDS	AVG_POUNDS
53	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	N-BUTYL ACETATE	103-86-4	0	10
	N-METHYL PYRROLIDONE		0	8
	NAPHTHA		0	0
	NITRIC ACID	7697-87-2	0	401
	NITROGEN	7727-07-3	0	150,975
	NITROGEN TRIFLUORIDE	7783-34-0	0	0
	NITROMETHANE	75-52-5	0	0
	NITROUS OXIDE	10024-97-2	0	200
	NON-CE-A		0	7
	NON-CEHA PROPRIETARY		0	0
	NONYLPHENOXYPOLYETHOXYETHANOL	68413-54-4	0	30
	NOVALAK RESIN		0	0
	OIL, WHITE	8042-47-5	0	0
	ORGANIC SALT		0	1
	OXYGEN	7782-44-7	0	104
	PARAFFINIC GREASE		0	0
	PERFLUORO-CHEMICAL, CE-18	88505-42-1	0	155
	PHOSPHATE		0	2
	PHOSPHINE	7800-81-2	0	3
	PHOSPHORIC ACID	7664-38-2	0	20
	PHOSPHOROUS OXYCHLORIDE	7719-12-7	0	18
	PROTECTIVE COMPOUND		0	0
	POLY (METHYL METHACRYLATE)		0	0
	POLYDIMETHYLSILOXANE	63146-62-9	0	0
	POLYVINYL METHYLSILOXANE		0	2
	POTASSIUM BIPHENALATE	577-34-7	0	0
	POTASSIUM CYANIDE	151-50-2	0	4
	POTASSIUM ELECT		0	67
	POTASSIUM FERRICYANIDE	13740-66-2	0	12
	POTASSIUM HYDROXIDE		0	332
	POTASSIUM PHOSPHATE MONOBASIC		0	9
	PROPANE	74-86-6	0	2
	PROPANE-1,3-DIBUTANE		0	0
	PROPYLENE GLYCOL MONOMETHYL ETHER	107-95-0	0	0
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-85-4	0	18
	RESIN	25153-46-2	0	0
	ROBIN	8050-09-7	0	5
	SILANAMINE		0	2
	SILANE	7633-62-0	0	9
	SODIUM BORALTA		0	0
	SODIUM CARBONATE	5840-11-6	0	0
	SODIUM HYDROXIDE	1310-73-2	0	1,068
	SODIUM HYPOCHLORITE	7681-52-6	0	49
	SODIUM NITRITE	7632-10-0	0	46
	SODIUM TETRABORATE	12045-88-4	0	36
	SOLVENT		0	0
	SULFUR HEXAFLUORIDE	1551-62-4	0	345
	SULFURIC ACID	7664-97-9	0	1,050

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PLCG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_FOUNDS	AVE_FOUNDS
63	SURFACTANT		0	0
	TERT-BUTYL ALCOHOL, MOB	75-85-0	0	7
	TETRAETHYL AMMONIUM HYDROXIDE	75-89-1	0	8
	THIOUREA	52-56-6	0	1
	TOLUENE	108-88-3	0	42
	TOLUOL	108-88-3	0	0
	TRADE SECRET/GENERIC/ /	74-86-2	0	0
	TRIBUTYLSETHYL PHOSPHATE		0	0
	TRIFLUOROMETHANE	75-86-7	0	0
	TUNGSTEN HEXAFLUORIDE		0	130
	WATER	7732-18-8	0	289
	XYLENE		0	10
64	ALCOHOL		0	0
6C	NON-DECA		0	23,769
	POLYPHOSPHATES		0	133
	PROPYLENE GLYCOL	57-85-6	0	0
	SODIUM HYPOCHLORITE	7881-32-9	0	3,340
	SODIUM PHOSPHATE TRIBASIC	7601-84-9	0	135
NT			0	62,790
	1,1,1 TRICHLOROETHANE	75-85-6	0	71,313
	1,1,1 TRIMETHYL-N-TRIMETHYL ETHER		0	395
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-17-1	0	112
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	75,076
	1,2,4 TRICHLOROBENZENE	120-82-1	0	53,962
	1,2-DICHLOROBENZENE	95-50-1	0	22,820
	2-ETHOXYETHYL ACETATE	111-15-5	0	243
	2-METHOXY-1-PROPANOL ACETATE		0	2
	3-METHYL-2-BUTANONE	110-12-0	0	2,328
	ACETIC ACID	64-19-7	0	7,738
	ACETONE	67-64-1	0	238,929
	ALKALINE SALTS		0	204
	ALKYL ARYL SULFONIC ACID		0	0
	ALUMINUM OXIDE	1344-28-1	0	1,600
	AMINO ACID CHLORIDE		0	0
	AMINOETHYL PROPANOL	124-63-5	0	7
	AMMONIA	7804-61-7	0	700
	AMMONIUM FLUORIDE	13125-1-8	0	46,905
	AMMONIUM HYDROXIDE	1336-21-8	0	3,852
	ANTIOXIDANT	7429-90-5	0	26
	ARGON	7440-37-1	0	2,295
	AROMATIC BISAZIDE		0	56
	AROMATIC PHENOL		0	27,581
	AROMATICS OR-DIO		0	27,981
	ARBINE	7784-42-1	0	33
	BORIC ACID	10043-35-3	0	10,601
	BORON TRIBROMIDE	10294-33-4	0	26
	BORON TRICHLORIDE	10294-34-5	0	472
	BORON TRIFLUORIDE	7637-07-1	0	7
	BUTYL ACETATE	107-96-4	0	22

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SLUG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
NT	BUTYL CELLOSOLVE		0	325
	CALCIUM CARBONATE	1017-63-7	0	1
	CALCIUM HYDROXIDE	1005-62-0	0	265
	CARBON DIOXIDE		0	15,860
	CELLOSOLVE ACETATE	111-15-9	0	64,334
	CERIC AMMONIUM ATRATE	16774-21-7	0	1,568
	CERIC SULFATE	17560-82-4	0	1,103
	CHLORINATED BENZENE		0	0
	CHLORINATED HYDROCARBONS		0	26,789
	CHLORINE	7782-50-5	0	95
	DICHLORODIFLUOROMETHANE	75-45-6	0	750
	CHLOROPENTAFLUOROETHANE	76-15-3	0	100
	CHROMIC ACID	10703-82-0	0	55
	CITRIC ACID	77-92-9	0	400
	CRESOL	1019-77-3	0	14,522
	CRESOL FORMALDEHYDE RESIN	27029-76-1	0	80
	CRESOL-FORMALDEHYDE NOVALAK RESIN	9016-83-5	0	2
	CRESOL-FORMALDEHYDE RESIN		0	1,310
	CYCLIZED POLYISOPRENE	9003-31-0	0	2,024
	CYCLOPARAFFINS		0	27,981
	DIACETONE ALCOHOL	123-42-2	0	13
	DIATOMACEOUS EARTH	61790-57-2	0	124,600
	DIAZONAPHTHOQUINONE SENSITIZER		0	2
	DICHLORODIFLUOROMETHANE	75-71-8	0	43
	DICHLOROSILANE	6309-76-0	0	2,340
	DISTANDLAXINE	111-42-2	0	19,793
	DISODIUM PEROXYDISULFATE	7775-27-1	0	216
	DISPERANT, WATER SOLUBLE		0	26
	DODECYLBENZENE SULFONIC ACID	17176-87-0	0	46,652
	ETHYL ALCOHOL	64-17-5	0	7,400
	ETHYL BENZENE	100-41-4	0	0
	ETHYLBENZENE	100-41-4	0	6,489
	ETHYLENE DIAMINE TETRAACETIC ACID	60-40-4	0	174
	EUK RESIN		0	36
	HELIUM		0	73
	HEXAFLUOROETHANE		0	285
	HMS		0	85,034
	HYDROFINISHED PARAFFINIC PETROLEUM OIL	64742-54-7	0	3,193
	HYDROFLUORIC ACID	7664-79-5	0	71,417
	HYDROGEN	1333-74-0	0	255,635
	HYDROGEN CHLORIDE	7647-01-0	0	79,250
	HYDROGEN PEROXIDE	7722-84-1	0	30,632
	HYDROXY BENZENE		0	10,373
	ISOPROPYL ALCOHOL	67-58-0	0	56,387
	JANUS GREEN B	1369-83-0	0	2
	LANTHANUM CHLORIDE		0	216
	LITHIUM COMPOUND		0	1,446
	METHYL ALCOHOL	67-58-1	0	100,567
	METHYL PROPYL KETONE	167-87-9	0	278

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PLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_FOUNDS	AVG_POUNDS
RT	METHYL T-BUTYL ETHER	1634-04-4	0	41
	METHYLENE CHLORIDE	75-09-1	0	364
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MONOETHANOLAMINE	141-43-5	0	17,320
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	N-BUTYL ACETATE	123-86-4	0	1,688
	N-ETHYL PYRROLIDONE		0	15,999
	N-ETHYLPYRROLIDONE	972-50-1	0	2,964
	NALCO SILICA		0	640
	NAPHTHOQUINONE DIAZIDE	68510-93-0	0	457
	NAPHTHOQUINONE DIAZIDE	68510-97-0	0	22
	NITRIC ACID	7697-37-2	0	115
	NITROGEN	7727-37-2	0	11,090,165
	NITROMETHANE	75-52-5	0	35
	NITROGEN DIOXIDE	10024-97-2	0	2,350
	NON-OSHA		0	864
	NON-OSHA PROPRIETARY		0	3,252
	NOVALAK RESINS		0	1
	NOVALAK RESINS, DYE & PHOTOACTIVE EXPOS.		0	99
	OIL, REFINED MINERAL		0	758
	OXYLPHENOL POLYETHOXYLATE	9004-87-9	0	171
	OXYGEN	7782-44-7	0	315,532
	P-TOLUENE SULFONIC ACID		0	954
	PARAFFINE		0	1,119
	PERCHLOROETHYLENE		0	26,969
	PERFLUORO-CHEMICAL, C5-18	86508-92-1	0	4,189
	PHOSPHATE		0	204
	PHOSPHINE	7803-51-2	0	219
	PHOSPHORIC ACID	7664-38-2	0	921
	PHOSPHOROUS OXYCHLORIDE	7719-12-0	0	37
	PHOSPHOROUS TRIBROKIDE	7789-50-8	0	5
	PHOTOACTIVE COMPOUND		0	200
	POLYGLYCOL ETHER		0	26
	POTASSIUM HYDRATE		0	1,157
	POTASSIUM HYDROXIDE		20,452	7,504
	PROPYLENE GLYCOL	57-55-6	0	3,369
	PROPYLENE GLYCOL MONOMETHYL ETHER	107-96-1	0	7
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-55-6	0	3,016
	RESIN	35153-46-1	0	700
	SILANAMINE		0	395
	SILANE	7803-62-5	0	377
	SILICON DIOXIDE		0	16,165
	SILICON TETRACHLORIDE	10026-14-7	0	1,200
	SILVER CHLORIDE	7783-90-6	0	0
	SODIUM BISULFITE	7631-99-1	0	300
	SODIUM CHLORIDE	7647-14-5	0	2,547,155
	SODIUM CITRATE	144-33-2	0	12
	SODIUM HYDROXIDE	1310-73-0	0	667

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_FOUNDS	AVG_FOUNDS
NT	SODIUM HYPOCHLORITE	7681-52-9	0	995
	SODIUM METABISULFITE	7631-57-4	0	10
	SODIUM MOLYBDATE	7631-75-0	0	0
	SODIUM SULFITE	7757-93-7	0	3
	STANNOUS SULFATE	7499-55-7	0	527
	SULFUR HEXAFLUORIDE	2851-62-4	0	2,760
	SULFURIC ACID	7664-93-9	0	57
	TEOS	76-10-4	0	4,705
	TETRAFLUOROMETHANE	75-73-0	0	910
	TETRAMETHYL AMMONIUM HYDROXIDE	75-59-1	0	2,353
	TETRAETHYLAMMONIUM HYDROXIDE	75-59-2	0	291
	TRADE SECRET/SEMI-DI /	74-26-2	0	5
	TRICHLOROESTERANE	10035-78-2	0	139,380
	TRIETHANOLAMINE		0	21,203
	TUNGSTEN HEXAFLUORIDE		0	45
	WATER	7732-18-8	0	90,858
	XYLENE		0	56,083
NT	1,1,1 TRICHLOROETHANE	17-55-6	0	11
	2,1 DIBROMO 3 NITRILOPROPION		0	11
	2,2 DIBROMO 3 NITRILOPROPIONAMIDE		0	344
	ACETONE	67-64-1	0	13
	AMDE		0	344
	CHLORODIFLUOROMETHANE	75-45-6	0	30
	ETHOXYLATED TALL OIL FATTY ACIDS	61751-00-2	0	0
	FORMALDEHYDE	50-00-0	0	0
	HYDROCHLORIC ACID	7647-01-0	0	11
	HYDROGEN CHLORIDE	7647-01-0	0	0
	ISOBUTANE	75-28-5	0	0
	ISOPROPYL ALCOHOL	67-63-0	0	7
	PERDINE	9108-20-6	0	5
	MONOETHANOLAMINE	141-43-2	0	0
	POTASSIUM BIPHENYLATE	377-24-7	0	1
	POTASSIUM PHOSPHATE MONOBASIC		0	0
	PROPYLENE GLYCOL	57-55-6	0	0
	SODIUM CARBONATE	5968-11-6	0	0
	SODIUM HYDROXIDE	1310-73-2	0	31,275
	SODIUM HYPOCHLORITE	7681-52-9	0	3,045
	SODIUM PHOSPHATE DIBASIC	7758-79-4	0	0
	STRAIGHT RUN MIDDLE DISTILLATES	64741-44-0	0	14
	SULFURIC ACID	7664-93-9	0	75,723
	THYXIL		0	0
	WATER	7732-18-8	0	2
	XYLENE		0	7

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
04			0	2,850
	1,1,1 TRICHLOROETHANE	17-55-6	0	175
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	2,850
	2-METHYL-4-ISOTHIAZOLIN-3-ONE	1682-20-4	0	10
	5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	26172-55-4	0	50
	ACETIC ACID	64-19-7	0	71
	ACETONE	67-64-1	0	462
	ALIPHATIC HYDROCARBON		0	109
	ALIPHATIC HYDROCARBONS		0	109
	ALIPHATIC PETROLEUM DISTILLATES		0	69
	AMMONIA	7664-41-7	0	6
	AMMONIUM FLUORIDE	12123-1-8	0	288
	AMMONIUM HYDROXIDE	1336-21-6	0	83
	AMMONIUM PERFLUOROALKYL SULFONATE	68259-07-4	0	4
	AMMONIUM PERFLUOROALKYL SULFONATE #1	68259-07-4	0	0
	AMMONIUM PERFLUOROALKYL SULFONATE #2	68259-08-5	0	0
	AMMONIUM PERFLUOROALKYL SULFONATE #3	68259-09-6	0	0
	AMMONIUM PERFLUOROALKYL SULFONATE #4	68259-10-9	0	0
	AMMONIUM PERSULFATE	7727-54-0	0	28
	ANTIOXIDANT	7429-90-5	0	0
	ARGON	7440-17-1	0	31
	AROMATIC BISAZIDE		0	1
	ARSINE	7784-42-1	0	0
	BORON TRIBROMIDE	10294-33-4	0	3
	CARBON DIOXIDE		0	0
	CHROMIC ACID	1333-82-0	0	1
	CHROMIUM TRIOXIDE SOLUTION		0	8
	CUPRIC NITRATE	10031-43-3	0	19
	CYCLIZED POLYISOPRENE	9003-71-0	0	23
	CYCLOHEXANE	110-82-7	0	0
	DIATOMACEOUS EARTH	61790-53-2	0	0
	DICHLORODIFLUOROETHANE	75-71-8	0	1
	DICHLOROSILANE	4109-96-0	0	594
	DIETHANOLAMINE	111-42-2	0	408
	DIMETHYL ETHER PROPELLANT	115-10-6	0	0
	ETHYL ALCOHOL	64-17-5	0	151
	ETHYLENENE	100-41-4	0	108
	ETHYLENE GLYCOL MONOETHYL ETHER	111-76-2	0	0
	FERRIC CHLORIDE	7705-08-0	0	6
	FREON 11		0	678
	HELIUM		0	1,361
	HEXAMETHYLDISILAZANE		0	2
	HEXANE	110-54-3	0	0
	HMS		0	2
	HYDROCHLORIC ACID	7617-01-0	0	5
	HYDROFINISHED PARAFFINIC PETROLEUM OIL	64742-54-7	0	1
	HYDROFLUORIC ACID	7664-39-3	0	342
	HYDROGEN	1333-74-0	0	50,402
	HYDROGEN CHLORIDE	7647-01-0	0	23,267

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
04	HYDROGEN PEROXIDE	7722-84-1	0	185
	ISOBUTANE	75-28-5	0	0
	ISOPARAFFINIC HYDROCARBONS		0	2
	ISOPROPYL ALCOHOL	67-63-0	0	533
	LANTHANUM CHLORIDE		0	35
	LEAD	7439-92-1	0	1
	LITHIUM COMPOUND		0	92
	LITHIUM COMPOUNDS		0	1
	MEROPA 680		0	60
	METHYL ETHYL KETONE	78-93-3	0	2
	METHYL ETHYL KETOXIME		0	0
	METHYLENE CHLORIDE	75-09-2	0	3
	MINERAL SPIRITS	75-45-6	0	45
	MONOETHANOLAMINE	141-43-5	0	408
	MORPHOLINE		0	0
	N-BUTANOL	71-36-3	0	1
	N-BUTYL ACETATE	123-86-4	0	625
	N-BUTYL ALCOHOL		0	0
	N-HEXANE		0	0
	NAPHTHA		0	0
	NITRIC ACID	7697-37-2	0	539
	NITROGEN	7727-37-2	0	301
	OIL, WHITE	8042-47-5	0	0
	ORGANIC RESIN		0	0
	ORGANOMETALLIC POLYMER		0	12
	OXYPHENOL POLYETHOXYLATE	2004-87-9	0	50
	OXYGEN	7782-44-7	0	470,509
	PARAFFINIC PETROLEUM OIL		0	1
	PARAFFINIC GREASE		0	0
	PHOSPHORIC ACID	7664-39-2	0	31
	POTASSIUM HYDRATE		0	65
	POTASSIUM HYDROXIDE		0	618
	PROPANE	74-98-6	0	0
	PROPANE-ISOBUTANE		0	3
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	0	65
	SILICON DIOXIDE		0	1,479
	SILICON TETRACHLORIDE	10026-04-7	0	2,700
	SODIUM HYDROXIDE	1310-73-2	0	65
	SODIUM HYPOCHLORITE	7681-52-9	0	54
	SODIUM MOLYBDATE	7631-95-0	0	9
	SODIUM TETRABORATE	12043-98-4	0	67
	SULFURIC ACID	7664-93-9	0	34,492
	SURFACTANT		0	0
	SYNTHETIC RUBBER		0	0
	TERPENE RESIN	7429-90-5	0	0
	TETRAPOTASSIUM PHOSPHATE	75-45-6	0	0
	TIN	7440-31-3	0	1
	TOLUENE	108-98-3	0	1
	TOLUOL	108-90-3	0	0

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
04	TRADE SECRET/GENERIC/ /	74-86-2	0	33
	TRICHLOROSILANE	10025-73-2	0	17,500
	V B & P NAPHTHA	64742-89-8	0	17
	WATER	7732-18-5	0	2,920
	XYLENE		0	934
51			0	726
	1,1,1 TRICHLOROETHANE	17-55-6	0	2
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	78-13-1	0	772
	1,2,4 TRICHLOROBENZENE	120-82-1	0	33
	1-METHOXY-2-PROPANOL ACETATE	108-65-6	0	0
	2-METHOXY-1-PROPANOL		0	2
	ACETIC ACID	64-19-7	0	15
	ACETONE	67-64-1	0	415
	ACRYLIC RESIN		0	0
	ALCOHOL		0	1
	ALIPHATIC PETROLEUM HYDROCARBON		0	1
	ALUMINIUM OXIDE	1344-28-1	0	0
	ALUMINUM OXIDE	1344-28-1	0	0
	AMMONIA	7804-41-7	0	153
	AMMONIUM FLUORIDE	12125-1-8	0	134
	AMMONIUM OLEATE		0	0
	ARSON	7440-37-1	0	205
	AROMATIC BISAZIDE		0	1
	AROMATIC PHENOL		0	17
	AROMATICS C9-C12		0	17
	ARSINE	7784-42-1	0	46
	BORON TRIBROMIDE	10294-33-4	0	16
	BUTYL ACETATE	123-86-4	0	0
	CALCIUM CARBONATE	1317-65-3	0	2
	CARBON BLACK	1333-81-4	0	0
	CARBON DIOXIDE		0	391
	CELLOSOLVE ACETATE	111-15-9	0	10
	CHROMIUM TRIOXIDE		0	1
	CORROSION INHIBITOR	85595-45-5	0	0
	CRESOL	1319-77-3	0	1
	CRESOL-FORMALDEHYDE NOVALAK RESIN	9016-83-5	0	0
	CYCLOLIZED POLYISOPRENE	9003-31-3	0	40
	CYCLOPARAFFINS		0	17
	DIAZONAPHTHOQUINONE SENSITIZER		0	0
	DIBUTYL PHTHALATE	84-74-2	0	0
	DICHLORODIFLUOROMETHANE	75-71-8	0	17
	DICHLOROSILANE	4109-96-0	0	90
	DODECYLBENZENE SULFONIC ACID	27176-87-0	0	17
	DYE		0	0
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	4
	ETHYLBENZENE	100-41-4	0	67
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0	0
	FATTY ACID DERIVATIVE		0	0

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51	FATTY ACID DIETHANOLAMIDE		0	0
	GLYCINE	56-40-6	0	0
	GLYCOL ETHER	107-98-2	0	23
	HELIUM		0	5
	HYDROCHLORIC ACID	7647-01-0	0	33
	HYDROFLUORIC ACID	7664-39-3	0	51
	HYDROGEN	1333-74-0	0	312
	HYDROGEN CHLORIDE	7647-01-0	0	65
	HYDROGEN PEROXIDE	7722-84-1	0	11
	IRON OXIDE	1369-37-1	0	0
	ISOBUTANE	75-28-5	0	3
	ISOPARAFFINIC HYDROCARBONS		0	2
	ISOPROPYL ALCOHOL	67-63-0	0	127
	KEROSENE	8008-20-6	0	0
	KETONE		0	1
	LEAD	7439-92-1	0	35
	METHYL ALCOHOL	67-56-1	0	243
	METHYLENE CHLORIDE	75-09-2	0	6
	MICA	12001-26-2	0	2
	MINERAL SPIRITS	75-45-6	0	3
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	1
	MOLYBDENUM DISULFIDE	1317-33-5	0	1
	MOLYBDENUM DISULFITE		0	0
	MONOETHANOLAMINE	141-43-5	0	0
	MORPHOLINE		0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	1
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	1
	N-BUTYL ACETATE	123-86-4	0	293
	NAPHTHENIC OIL	64742-52-5	0	0
	NITRIC ACID	7697-37-2	0	252
	NITROGEN	7727-07-2	0	6,789
	NITROUS OXIDE	10024-97-2	0	165
	OIL, MINERAL		0	8
	OXYLPHENOL POLYETHOXYLATE	9004-87-9	0	102
	OXYGEN	7782-44-7	0	24
	PARAFFINS		0	1
	PHOSPHINE	7603-51-2	0	38
	PHOSPHORIC ACID	7664-39-2	0	45
	PHOSPHOROUS OXYCHLORIDE	7719-12-2	0	9
	POTASSIUM HYDROXIDE		0	111
	PROPANE	74-98-6	0	1
	PROPRIETARY INGREDIENT		0	0
	PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	0	36
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-5	0	7
	ROSIN	8050-07-7	0	30
	SILICON CARBIDE	409-21-2	0	2
	SILVER	7440-22-4	0	0
	SODIUM CARBONATE	5868-11-6	0	0
	SODIUM HYDROXIDE	1310-73-2	0	8

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BLOG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
51	SODIUM HYPOCHLORITE	7661-52-9	0	1
	SOLID PIGMENT		0	0
	SOLVENT		0	1
	STYRENE/ACRYLATE POLYMER	25213-39-2	0	2
	SULFUR HEXAFLUORIDE	2551-62-4	0	2,115
	SULFURIC ACID	7664-93-9	0	721
	SURFACTANT		0	0
	TELOMER OF TETRAFLUOROETHANE		0	0
	TELOMER OF TETRAFLUOROETHYLENE		0	0
	TERGITOL NONIONIC SURFACTANT	58551-14-4	0	42
	TETRAFLUOROMETHANE	75-72-0	0	277
	TETRAMETHYL AMMONIUM HYDROXIDE	75-59-2	0	2
	TIN	7440-31-5	0	52
	TOLUENE	108-88-3	0	0
	TRADE SECRET/GENERIC/ /	74-86-2	0	13
	TRICHLOROFLUOROMETHANE	75-64-9	0	27
	WATER	7732-18-5	0	38
	WHITE SPIRIT	80065-64-2	0	0
	XYLENE		0	304
	ZINC DIALKYL DITHIOPHOSPHATE	26566-95-0	0	0
52	1,1,1 TRICHLOROETHANE	17-55-4	0	67
	1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	74-13-1	0	58
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	74-13-1	0	102
	1-METHOXY-2-PROPANOL ACETATE	108-65-6	0	0
	1-PROPANOL	71-23-8	0	0
	2-METHYL-4-ISOTHIAZOLIN-3-ONE	2682-20-4	0	9
	3-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	26171-55-4	0	50
	ACETIC ACID	64-19-7	0	49
	ACETONE	67-64-1	0	34
	ACRYLIC RESIN		0	0
	AMINOETHYL PROPANOL	124-68-5	0	1
	AMMONIUM BIFLUORIDE	1341-49-7	0	50
	AMMONIUM FLUORIDE	12125-1-8	0	44
	AMYL ACETATE	628-63-7	0	1
	ARGON	7440-37-1	0	52
	BUTYL ACETATE	123-86-4	0	0
	CAMPHOR	76-22-2	0	0
	CARBON DIOXIDE		0	1,170
	CASTOR OIL	8001-79-4	0	0
	CELLOSOLVE		0	0
	CELLOSOLVE ACETATE	111-15-9	0	8
	CERIC SULFATE	13590-82-4	0	0
	CHLORO-DIFLUOROMETHANE	75-45-6	0	36
	CHLORO-PENTAFLUOROETHANE	76-15-3	0	15
	CHLORO-TRIFLUOROMETHANE	75-72-9	0	18
	CHROMIUM DIOXIDE	12016-01-8	0	1
	CHROMIUM TRIOXIDE		0	2
	CUPRIC NITRATE	10031-67-3	0	1
	DIATOMACEOUS EARTH	61790-53-2	0	0

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SLOG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
52	DIBUTYL PHTHALATE	84-74-0	0	0
	DICHLORODIFLUOROMETHANE	75-71-8	0	2,209
	DIETHYLENE GLYCOL MONOBUTYL ETHER	112-04-5	0	3
	DIMETHYL FORMAMIDE	98-12-2	0	4
	DIMETHYL SULFOXIDE	67-68-5	0	4
	ETHANOLAMINE	141-43-5	0	9
	ETHER		0	0
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	1
	ETHYLENE DIAMINE TETRAACETIC ACID	50-00-4	0	2
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0	0
	FATTY ACID DERIVATIVE		0	0
	FORMALDEHYDE	50-00-0	0	46
	FORMIC ACID	64-18-6	0	0
	GLYCERINE		0	3
	HELIUM		0	7
	HYDROCARBON LUBRICANT		0	0
	HYDROCHLORIC ACID	7647-01-0	0	12
	HYDROFLUORIC ACID	7664-39-3	0	35
	HYDROGEN	1333-74-0	0	1
	HYDROGEN PEROXIDE	7722-84-1	0	20
	ISOBUTANE	75-28-5	0	2
	ISOPROPYL ALCOHOL	67-63-0	0	33
	METHOXYSilANE		0	0
	METHYL ALCOHOL	67-56-1	0	56
	METHYL CELLOSOLVE	109-86-4	0	4
	METHYL ETHYL KETONE	78-93-3	0	1
	METHYL TRIMETHOXYSilANE		0	0
	METHYLENE CHLORIDE	75-09-2	0	62
	MINERAL SPIRITS	75-65-6	0	394
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MONOETHANOLAMINE	141-43-5	0	5
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	N-ARYL ACETATE	628-63-7	0	0
	NITRIC ACID	7697-37-2	0	26
	NITROGEN	7727-37-2	0	313
	NITROMETHANE	75-52-5	0	0
	OIL, REFINED MINERAL		0	414
	OIL, WHITE	8042-47-5	0	0
	OXYGEN	7782-44-7	0	11
	PARRAFINIC GREASE		0	0
	PERFLUOROChemical, C8-18	86508-42-1	0	121
	PHENOL	108-95-2	0	0
	PHOSPHORIC ACID	7644-38-2	0	30
	POTASSIUM DICHROMATE	7767-50-9	0	1
	POTASSIUM HYDROXIDE		0	1
	POTASSIUM MONOCHLORIDE	7447-40-7	0	4
	POTASSIUM NITRATE	7757-79-1	0	0

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BLDG	CHEMICAL/COMPONENT	GAS NUMBER	MAX_POUNDS	AVG_POUNDS
52	PROPANE	74-98-6	0	19
	PROPRIETARY INGREDIENT		0	0
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	0	0
	PROPYLENE GLYCOL PHENYL ETHER	770-35-4	0	1
	PYROXYLIN	9004-70-0	0	0
	SILANE	7803-62-5	0	3
	SILICON CARBIDE	409-21-2	0	3
	SILVER	7440-22-4	0	0
	SODIUM CARBONATE	5968-11-6	0	0
	SODIUM CHLORIDE	7647-14-5	0	50
	SODIUM CITRATE	144-33-2	0	6
	SODIUM HYDROXIDE	1310-73-2	0	65
	SODIUM HYPOCHLORITE	7661-82-9	0	97
	SODIUM METABISULFITE	7681-57-4	0	1
	SODIUM MOLYBDATE	7631-95-0	0	2
	SODIUM NITRITE	7632-00-0	0	29
	SODIUM SULFITE	7757-83-7	0	0
	SODIUM TETRABORATE	12045-68-4	0	29
	SODIUM TOLYTRIAZOLE	64665-57-2	0	19
	STODDARD SOLVENT	9852-41-3	0	64
	SUBSTITUTED SILOXANE POLYMER	67762-97-4	0	0
	SULFUR HEXAFLUORIDE	2551-62-4	0	113
	SULFURIC ACID	7664-93-9	0	392
	TEOS	78-10-4	0	1
	TETRAFLUOROMETHANE	75-73-0	0	46
	TOLUENE	108-88-3	0	7
	TRADE SECRET/GENERIC/ /	74-84-2	0	6
	TRICHLOROFLUOROMETHANE	75-64-9	0	1
	TRIFLUOROMETHANE	75-46-7	0	12
	WATER	7732-18-5	0	16
	XYLENE		0	7
53	ETHYL ALCOHOL	64-17-5	0	0
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0	0
	HEXANE	110-54-3	0	5
	ISOPROPYL ALCOHOL	67-63-0	0	0
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
54			0	2,173
	1,1,1 TRICHLOROETHANE	17-55-6	0	424
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-17-1	0	2,174
	1,2,4 TRICHLOROBENZENE	120-82-1	0	262
	1,2-DICHLOROBENZENE	95-50-1	0	57
	2-ETHOXYETHYL ACETATE	111-15-9	0	14
	ACETIC ACID	64-19-7	0	52
	ACETONE	67-64-1	0	1,690
	ALKALINE SALTS		0	0
	ALKYL ARYL SULFONIC ACID		0	0
	ALUMINIUM OXIDE	1344-28-1	0	0

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BLOG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
54	ALUMINUM OXIDE	1344-28-1	0	0
	AMMONIA	7664-41-7	0	251
	AMMONIUM FLUORIDE	12125-1-8	0	241
	AMMONIUM HYDROXIDE	1336-21-6	0	136
	AMMONIUM OLEATE		0	0
	ARSEN	7440-37-1	0	362
	AROMATIC BIGAZIDE		0	1
	AROMATIC PHENOL		0	131
	AROMATICS C9-C12		0	131
	ARSINE	7784-42-1	0	32
	BORON TRIBROMIDE	10294-33-4	0	12
	BORON TRICHLORIDE	10294-34-5	0	29
	BORON TRIFLUORIDE	7637-07-2	0	3
	BUTYL ACETATE	123-86-4	0	1
	CALMAGITE	3147-14-6	0	0
	CARBON DIOXIDE		0	0
	CARBON TETRACHLORIDE	56-23-5	0	53
	CELLOSOLVE ACETATE	111-13-9	0	234
	CERIC SULFATE	13590-82-4	0	1
	CHLORINATED BENZENE		0	0
	CHLORINATED HYDROCARBONS		0	68
	CHLORINE	7782-50-5	0	450
	CHROMIC ACID	1333-82-0	0	1
	CRESOL	1319-77-3	0	36
	CRESOL FORMALDEHYDE RESIN	27029-76-1	0	5
	CRESOL-FORMALDEHYDE NOVOLAK RESIN	9016-83-5	0	1
	CRESOL-FORMALDEHYDE RESIN		0	30
	CYCLIZED POLYISOPRENE	9003-31-0	0	37
	CYCLOPARAFFINS		0	131
	DIATOMACEOUS EARTH	61790-53-2	0	0
	DIAZONAPHTHOQUINONE SENSITIZER		0	1
	DICHLORODIFLUOROMETHANE	75-71-8	0	5
	DICHLOROSILANE	4109-96-0	0	270
	DODECYLBENZENE SULFONIC ACID	27176-87-0	0	178
	ETHOXYLATED TALL OIL FATTY ACIDS	31791-00-2	0	0
	ETHYL BENZENE	100-41-4	0	0
	ETHYLBENZENE	100-41-4	0	87
	ETHYLENE GLYCOL	107-21-1	0	2,082
	FATTY ACID DIETHANOLAMIDE		0	0
	FOMBLIN Y 66/6 L VAC	69991-57-9	0	20
	FREON 116		0	285
	FREON 23		0	560
	GLYCERINE		0	11
	GLYCINE	56-40-6	0	0
	GLYCOL		0	66
	HELIUM		0	29
	HMS		0	38
	HYDROCHLORIC ACID	7647-01-0	0	349
	HYDROFLUORIC ACID	7664-39-3	0	770

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
54	HYDROGEN	1333-74-0	0	332
	HYDROGEN CHLORIDE	7647-01-0	0	455
	HYDROGEN PEROXIDE	7722-84-1	0	779
	HYDROXY BENZENE		0	26
	IRON OXIDE	1309-37-1	0	0
	ISOBUTANE	75-28-5	0	0
	ISOPARAFFINIC CARBOHONS		0	7
	ISOPROPYL ALCOHOL	67-63-0	0	468
	KEROSENE	8008-20-6	0	0
	METHYL ALCOHOL	67-56-1	0	157
	METHYLENE CHLORIDE	75-09-2	0	3
	MINERAL SPIRITS	75-45-6	0	0
	MONOETHANOLAMINE	141-43-5	0	0
	N-BUTYL ACETATE	123-86-4	0	579
	N-METHYL PYRROLIDONE		0	98
	NAPHTHA		0	0
	NAPHTHOQUINONE DIAZIDE	88510-93-0	0	10
	NAPHTHOQUINONE DIAZIDE	88510-93-0	0	1
	NITRIC ACID	7697-37-2	0	359
	NITROGEN	7727-37-2	0	841
	NITROGEN TRIFLUORIDE	7783-54-2	0	100
	NITROUS OXIDE	10024-97-2	0	35
	NON-OSHA		0	399
	NON-OSHA PROPRIETARY		0	5
	OSL, WHITE	8042-47-5	0	0
	OXAMMONIUM HYDROCHLORIDE		0	0
	OXYLPHENOL POLYETHOXYLATE	9004-87-9	0	67
	OXYGEN	7782-44-7	0	219
	PARAFFINS		0	5
	PARAFFINIC GREASE		0	0
	PERCHLOROETHYLENE		0	68
	PHOSPHATE		0	0
	PHOSPHINE	7803-51-0	0	50
	PHOSPHORIC ACID	7664-38-2	0	331
	PHOSPHOROUS OXYCHLORIDE	7719-12-2	0	13
	POTASSIUM BROMIDE	7758-02-3	0	14
	POTASSIUM HYDROXIDE		0	135
	PROPANE	74-90-6	0	2
	PROPANE-ISOBUTANE		0	2
	PROPYLENE GLYCOL	57-85-6	0	477
	PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	0	459
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	0	73
	SILANE	7803-62-5	0	25
	SILVER NITRATE		0	0
	SODIUM CARBONATE	5068-11-6	0	440
	SODIUM HYDROXIDE	1310-73-2	0	1,070
	SODIUM MOLYBDATE	7631-95-0	0	34
	SODIUM NITRITE	7632-00-0	0	29
	SODIUM TETRABORATE	12045-86-4	0	63

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS	
54	SODIUM TOLYTRIAZOLE	44685-57-2	0	22	
	SOLID PIGMENT		0	0	
	STODDARD SOLVENT	9052-41-3	0	25	
	SULFUR HEXAFLUORIDE	2551-62-4	0	1,000	
	SULFURIC ACID	7664-93-9	0	3,164	
	TELOMER OF TETRAFLUOROETHANE		0	0	
	TELOMER OF TETRAFLUOROETHYLENE		0	0	
	TERGITOL NONIONIC SURFACTANT	68351-14-4	0	42	
	TETRAFLUOROMETHANE	75-71-0	0	495	
	TETRAMETHYL AMMONIUM HYDROXIDE	75-59-2	0	20	
	TETRAPOTASSIUM PHOSPHATE	75-45-6	0	0	
	TOLUENE	108-88-3	0	2	
	TOLUOL	108-88-3	0	0	
	TRADE SECRET/GENERIC/ /	74-86-2	0	6	
	TRICHLOROETHYLENE	79-01-6	0	12	
	TRICHLOROFLUOROMETHANE	75-54-9	0	1	
	WATER	7732-18-8	0	439	
	WHITE SPIRIT	90065-64-2	0	0	
	XYLENE		0	726	
	55	1,1,1 TRICHLOROETHANE	17-55-6	0	615
ACETONE		67-64-1	0	13	
AMMONIA		7664-41-7	0	5	
AMMONIUM BIFLUORIDE		1341-49-7	0	50	
AMMONIUM HYDROXIDE		1336-21-6	0	15	
COPPER SULFATE		1573-07-2	0	472	
ETHYLENE GLYCOL		107-21-1	0	509	
FORMALDEHYDE		150-00-0	0	509	
HYDROCHLORIC ACID		7647-01-0	0	11	
ISOPROPYL ALCOHOL		67-63-0	0	4	
METHYL ETHYL KETONE		78-93-3	0	3	
MINERAL SPIRITS		75-45-6	0	2	
N-METHYL PYRROLIDONE			0	0	
PETROLEUM ETHER		8032-32-4	0	3	
POTASSIUM BROMIDE		7738-02-3	0	259	
POTASSIUM HYDROXIDE			0	37	
SILICON TETRACHLORIDE		10026-04-7	0	15	
SODIUM CARBONATE		5968-11-6	0	2,369	
56		1,1,1 TRICHLOROETHANE	17-55-6	0	11
		1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	40
	ACETONE	67-64-1	0	20	
	ADDITIVE	7631-66-9	0	0	
	ALIPHATIC PETROLEUM HYDROCARBON		0	0	
	BORAX		0	1	
	CARBON BLACK	1333-86-4	0	0	
	CARBON DIOXIDE		0	455	
	CORROSION INHIBITOR	85895-45-5	0	0	
	DIATOMACEOUS EARTH	61790-53-2	0	0	
	DICHLORODIFLUOROMETHANE	75-71-8	0	33	
	ETHOXYLATED TALL OIL FATTY ACID	61791-03-2	0	0	

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
56	ETHYL ALCOHOL	64-17-5	0	0
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0	0
	FORMALDEHYDE	50-00-0	0	0
	HYDROGEN	1333-74-0	0	1
	HYDROGEN CHLORIDE	7647-01-0	0	0
	ISOBUTANE	75-28-5	0	0
	ISOPROPYL ALCOHOL	67-63-0	0	29
	MAGNESIUM CHLORIDE	7791-18-6	0	7
	MAGNESIUM NITRATE	10377-60-3	0	7
	METHYL ALCOHOL	67-56-1	0	8
	METHYLENE CHLORIDE	75-09-2	0	11
	MINERAL SPIRITS	75-45-6	0	6
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MOLYBDENUM DISULFIDE		0	0
	MONOETHANOLAMINE	141-43-5	0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	NAPHTHENIC OIL	66742-52-5	0	0
	NITROGEN	7727-37-2	0	33
	OIL, WHITE	8042-47-5	0	0
	ORGANIC PIGMENT	84179-66-8	0	0
	PARAFFINIC GREASE		0	0
	POLYPROPYLENE	9003-67-0	0	0
	POTASSIUM BIPHthalate	677-24-7	0	0
	POTASSIUM PHOSPHATE MONOBASIC		0	0
	ROSIN	9050-09-7	0	1
	SODIUM CARBONATE	5968-11-6	0	0
	SODIUM HYDROXIDE	1310-73-2	0	0
	SODIUM PHOSPHATE DIBASIC	7358-19-4	0	0
	STYRENE ACRYLATE COPOLYMER	100-42-5-97	0	0
	TETRAFLUOROETHYLENE	116-14-3	0	0
	THYMOL		0	0
	TRICHLOROFLUOROMETHANE	75-64-9	0	16
	WATER	7732-18-5	0	8
	XYLENE		0	7
	ZINC DIALKYL DITHIOPHOSPHATE	26566-95-0	0	0
57			0	13
	1,1,1 TRICHLOROETHANE	17-55-6	0	22
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	14
	2-(2-ETHOXYETHOXY) ETHANOL	111-90-0	0	0
	ACETONE	67-64-1	0	27
	ALKYLOLAMINE METHOSULFATE		0	0
	AMMONIUM HYDROXIDE	1336-21-6	0	90
	CARBON TETRACHLORIDE	56-23-5	0	26
	CELLOSOLVE ACETATE	111-15-9	0	38
	CHLOROFORM	67-66-3	0	24
	CITRIC ACID	77-92-9	0	17
	DICHLORODIFLUOROMETHANE	75-71-8	0	0
	DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	0	0

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
57	ETHYL ALCOHOL	64-17-5	0	14
	ETHYLENE GLYCOL	107-21-1	0	0
	FLUOSBORIC ACID	16872-11-0	0	33
	FORMIC ACID	64-18-6	0	19
	HEXANE	110-54-3	0	12
	HYDROCHLORIC ACID	7647-01-0	0	65
	HYDROFLUORIC ACID	7664-39-3	0	27
	HYDROGEN PEROXIDE	7722-84-1	0	77
	HYDROQUINONE	123-31-9	0	12
	ISOPROPYL ALCOHOL	67-63-0	0	129
	JANUS GREEN B	2869-83-2	0	0
	METHYLENE CHLORIDE	75-09-2	0	22
	MODIFIED ACRYLIC POLYMERS		0	3
	N-METHYL-2-PYRROLIDONE	672-50-4	0	8
	NITRIC ACID	7697-37-2	0	5
	NON-HAZARDOUS INGREDIENTS		0	0
	ORGANIC ACID		0	2
	ORGANIC SALT		0	2
	POLYETHYLENE WAX		0	1
	SODIUM HYDROXIDE	1310-73-2	0	18
	SODIUM M-NITROBENZENESULFONATE	127-66-4	0	11
	STANNOUS SULFATE	7488-55-3	0	17
	SULFURIC ACID	7664-93-9	0	230
	SURFACTANT		0	2
	THIOUREA	62-56-6	0	4
	WATER	7732-18-5	0	6
58			0	423
	1,1,1 TRICHLOROETHANE	17-55-6	0	200
	1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	76-13-1	0	2
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	1,663
	1-METHOXY-2-PROPANOL ACETATE	108-65-6	0	0
	1-METHOXY-2-PROPYL ACETATE		0	0
	2-METHOXY-1-PROPANOL		0	2
	ACETONE	67-64-1	0	627
	ACRYLIC POLYMER		0	0
	ACRYLIC RESIN		0	0
	ALCOHOL		0	1
	ALKALINE SALTS		0	1
	ALARYL ARYL SULFONATE		0	0
	ALUMINUM OXIDE	1344-28-1	0	1,668
	AMMONIA	7664-41-7	0	105
	AMMONIUM CHLORIDE	12125-02-9	0	0
	AMMONIUM FLUORIDE	12125-1-8	0	25
	AMMONIUM HYDROXIDE	1336-21-5	0	0
	ANTIOXIDANT	7429-90-5	0	0
	ARSEN	7440-37-1	0	78
	AROMATIC BISAZIDE		0	0
	BUTYL ACETATE	123-86-4	0	0
	BUTYL CELLULOSE		0	0

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
58	CALCIUM CARBONATE	1317-65-3	0	5
	CALCIUM HYDROXIDE	1305-62-0	0	1
	CARBON DIOXIDE		0	3,971
	CELLOSOLVE		0	0
	CELLOSOLVE ACETATE	111-15-9	0	32
	CERIC SULFATE	13590-82-4	0	17
	CHLORODIFLUOROMETHANE	75-45-6	0	11
	CHLOROPENTAFLUOROETHANE	76-15-3	0	31
	CHLOROTRIFLUOROMETHANE	75-72-9	0	485
	CRESOL	1319-77-3	0	0
	CUPRIC SULFATE	7758-98-7	0	1
	CYCLIZED POLYISOPRENE	9003-31-0	0	1
	DIBUTYL PHTHALATE	84-74-2	0	0
	DICHLORODIFLUOROMETHANE	75-71-8	0	110
	DISODIUM PEROXYDISULFATE	7775-27-1	0	583
	DISPERANT, WATER SOLUBLE		0	0
	DODECYLBENZENE SULFONIC ACID ISOPROPYLAMINE SALT	26284-05-1	0	0
	ETHANOLAMINE	141-43-5	0	9
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	1
	ETHYL ALCOHOL	64-17-5	0	45
	ETHYL CYANOACRYLATE		0	0
	ETHYLBENZENE	100-41-4	0	1
	ETHYLENE	74-85-1	0	2
	ETHYLENE DIAMINE	107-15-3	0	7
	ETHYLENE DIAMINE TETRAACETATE		0	0
	ETHYLENE GLYCOL	107-21-1	0	39
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0	0
	FATTY ACID DERIVATIVE		0	0
	GLYCERINE		0	3
	GLYCOL ETHER	107-98-2	0	8
	GUM RESIN		0	6
	HYDROCARBON PROPELLANT		0	0
	HYDROCHLORIC ACID	7647-01-0	0	1
	HYDROFLUORIC ACID	7664-39-3	0	42
	HYDROGEN CHLORIDE	7647-01-0	0	15
	HYDROGEN PEROXIDE	7722-84-1	0	1,118
	IODINE	7553-56-2	0	0
	ISOBUTANE	75-28-5	0	4
	ISOPARAFFINIC HYDROCARBONS		0	0
	ISOPROPYL ALCOHOL	67-63-0	0	751
	KEROSENE	8008-20-6	0	21
	KETONE		0	1
	METHOXYSILOANE		0	0
	METHYL ALCOHOL	67-56-1	0	192
	METHYL CELLOSOLVE	109-86-4	0	1
	METHYLENE CHLORIDE	75-09-2	0	51
	MINERAL SPIRITS	75-45-6	0	6
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MONOETHANOLAMINE	141-43-5	0	2

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SLUG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
58	MORPHOLINE		0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	N-BUTYL ACETATE	123-86-4	0	3
	NAPHTHA		0	0
	NITRIC ACID	7697-37-2	0	73
	NITROGEN	7727-37-2	0	11,599
	NITROMETHANE	75-52-5	0	0
	NON-HAZARDOUS INGREDIENTS		0	0
	OIL, MINERAL		0	0
	ORGANIC SALT		0	7
	OXYLPHENOL POLYETHOXYLATE	9004-87-9	0	47
	OXYGEN	7782-44-7	0	283
	PERFLUOROCHEMICAL, C5-18	86508-42-1	0	903
	PHOSPHATE		0	1
	PHOSPHORIC ACID	7644-38-2	0	81
	POLYETHOXYNONYL PHENOL		0	0
	POLYGLYCOL ETHER		0	0
	POTASSIUM HYDROXIDE		0	37
	POTASSIUM IODIDE	7681-11-0	0	0
	PROPANE	74-98-6	0	1
	PROPANE-ISOBUTANE		0	2
	PROPRIETARY INGREDIENT		0	0
	PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	0	36
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	0	0
	RESIN	85153-44-2	0	15
	ROSIN	8050-09-7	0	1
	SILVER	7440-22-4	0	0
	SILVER CHLORIDE	7783-90-6	0	0
	SODIUM AMMONIUM		0	0
	SODIUM CARBONATE	5968-11-6	0	0
	SODIUM CHLORIDE	7647-14-5	0	51
	SODIUM HYDROXIDE	1310-73-2	0	48
	SODIUM HYPOCHLORITE	7681-52-9	0	50
	SOLVENT		0	28
	STANNOUS SULFATE	7488-55-3	0	1
	SULFURIC ACID	7664-93-9	0	130
	SURFACTANT		0	0
	TELOMER OF TETRAFLUOROETHANE		0	1
	TELOMER OF TETRAFLUOROETHYLENE		0	0
	TERTIARY AMINE SOLVENT		0	0
	TETRAFLUOROMETHANE	75-73-0	0	350
	TETRASODIUM EDTA		0	0
	TOLUENE	108-88-3	0	25
	TOLUOL	108-88-3	0	0
	TRADE SECRET/GENERIC/ /	74-86-2	0	6
	TRICHLOROFLUOROMETHANE	75-84-9	0	73
	TRIETHANOL AMMONIUM		0	0
	TRIETHYLENE GLYCOL MONOMETHYL ETHER	112-35-6	0	2

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SLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
58	TRIFLUOROMETHANE	75-46-7	0	4
	WATER	7732-18-5	0	56
	XYLENE		0	44
59			0	981
	1,1,1 TRICHLOROETHANE	17-55-6	0	6
	1,1,1 TRIMETHYL-N-TRIMETHYL ETHER		0	1
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	1,504
	1-BUTANOL	71-36-3	0	1
	2-ETHOXYETHYL ACETATE	111-15-9	0	152
	ACETONE	67-64-1	0	462
	ALCOHOL		0	0
	ALKYL ARYL SULFONATE		0	0
	ALUMINA		0	2
	AMMONIA	7664-41-7	0	200
	AMMONIUM FLUORIDE	12125-1-8	0	287
	AMMONIUM HYDROXIDE	1336-21-6	0	53
	ARGON	7440-37-1	0	435
	ARSINE	7794-42-1	0	260
	BENZENE	71-43-2	0	0
	BORON TRICHLORIDE	10294-34-5	0	300
	BORON TRIFLUORIDE	7637-07-2	0	240
	CALCIUM HYPOCHLORITE	7779-54-3	0	300
	CARBON TETRACHLORIDE	36-23-5	0	93
	CELLOSOLVE ACETATE	111-15-9	0	368
	CHLORINE	7782-50-5	0	450
	CHLORODIFLUOROMETHANE	75-45-6	0	186
	CHLOROPENTAFLUOROETHANE	76-18-3	0	135
	CITRIC ACID	77-92-9	0	50
	CRESOL-FORMALDEHYDE NOVALAX RESIN	9016-83-5	0	0
	CRESOL-FORMALDEHYDE RESIN		0	0
	DIAZONAPHTHOQUINONE SENSITIZER		0	0
	DICHLORODIFLUOROMETHANE	75-71-8	0	62
	DICHLOROSILANE	4109-96-0	0	360
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	0
	ETHYLBENZENE	100-41-4	0	1
	ETHYLENE DIAMINE TETRAACETATE		0	0
	ETHYLENE GLYCOL	107-21-1	0	537
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0	2
	FD 22		0	150
	FREON 11		0	30
	FREON 11a		0	665
	FREON 23		0	630
	HELIUM		0	45
	HMS		0	175
	HYDROCHLORIC ACID	7647-01-0	0	127
	HYDROFLUORIC ACID	7664-39-3	0	417
	HYDROGEN CHLORIDE	7647-01-0	0	195
	HYDROGEN PEROXIDE	7722-84-1	0	1,023

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
59	ISOBUTANE	75-20-8	0	0
	ISOPROPYL ALCOHOL	67-63-0	0	398
	KETONE		0	0
	METHYL ALCOHOL	67-56-1	0	322
	METHYL PHENYL ETHER	100-66-3	0	1
	METHYLENE CHLORIDE	75-09-2	0	1
	MINERAL SPIRITS	75-45-6	0	0
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MONOETHANOLAMINE	141-43-5	0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	N-BUTYL ACETATE	123-86-4	0	7
	N-BUTYL ACETATE	123-86-4	0	37
	N-METHYL PYRROLIDONE		0	225
	N-METHYLPYRROLIDONE	972-50-4	0	42
	NAPHTHA		0	0
	NITRIC ACID	7697-37-2	0	513
	NITROGEN	7727-37-2	0	435
	NITROGEN TRIFLUORIDE	7783-54-2	0	250
	NITROUS OXIDE	10024-97-2	0	260
	NON-OSHA PROPRIETARY		0	9
	NOVOLAK RESINS & PHOTOACTIVE CMPS.		0	90
	NOVOLAK RESINS, DYE & PHOTOACTIVE CMPS.		0	14
	OXYLPHENOL POLYETHOXYLATE	9004-87-9	0	50
	PHOSPHINE	7863-51-2	0	6
	PHOSPHORIC ACID	7644-38-2	0	78
	PHOTOACTIVE COMPOUND		0	19
	POLY VINYL ALCOHOL		0	0
	POLYETHOXYNONYL PHENOL		0	0
	POTASSIUM DICHROMATE	7789-50-9	0	6
	POTASSIUM HYDROXIDE		0	117
	POTASSIUM IODATE		0	0
	PROPANE-ISOBUTANE		0	1
	PROPYLENE GLYCOL	57-55-6	0	120
	PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	0	32
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	0	463
	RESIN	25153-46-2	0	19
	SILANAMINE		0	1
	SILANE	7303-62-5	0	19
	SODIUM AMMONIUM		0	0
	SODIUM CARBONATE	5966-11-6	0	0
	SODIUM CITRATE	144-33-2	0	6
	SODIUM HYDROXIDE	1310-73-2	0	1,854
	SODIUM HYPOCHLORITE	7881-32-9	0	146
	SODIUM METABISULFITE	7681-87-4	0	6
	SODIUM MOLYBDATE	7531-95-0	0	9
	SODIUM NITRITE	7632-00-0	0	40
	SODIUM TETRABORATE	12045-38-4	0	9
	SODIUM TOLYTRIAZOLE	64665-57-2	0	106

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59	SOLVENT		0	0
	SULFUR HEXAFLUORIDE	2551-62-4	0	575
	SULFURIC ACID	7664-93-9	0	5,002
	TELOMER OF TETRAFLUOROETHANE		0	0
	TECS	78-10-4	0	39
	TETRAFLUOROMETHANE	75-73-0	0	490
	TETRAMETHYL AMMONIUM HYDROXIDE	75-59-2	0	21
	TETRAMETHYLAMMONIUM HYDROXIDE	75-59-2	0	4
	TOLUENE	100-86-3	0	6
	TOLUOL	100-86-3	0	0
	TRADE SECRET/GENERIC/ /	74-86-2	0	6
	TRIETHANOL AMMONIUM		0	0
	TRIMETHYL BORATE	121-43-7	0	15
	TRIMETHYL PHOSPHITE	121-45-9	0	9
	WATER	7732-18-5	0	279
	XYLENE		0	45
60			0	2
	1,1,1 TRICHLOROETHANE	17-55-6	0	1
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	74-13-1	0	6
	2-METHYL-4-ISOTHIAZOLIN-3-ONE	2482-20-4	0	5
	5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	24172-55-4	0	25
	5-METHYL-2-HEXANONE	110-12-3	0	44
	ACETIC ACID	64-19-7	0	20
	ACETONE	67-64-1	0	156
	AMMONIUM CHLORIDE	12125-02-9	0	2
	AMMONIUM HYDROXIDE	1336-21-6	0	0
	BROMOCRESOL GREEN		0	0
	CARBON DIOXIDE		0	195
	CELLUSOLVE ACETATE	111-18-9	0	1
	CERIC AMMONIUM NITRATE	13774-21-0	0	31
	CHROMIC ACID	1333-82-0	0	1
	CHROMIUM COMPOUNDS		0	3
	CRESOL	1319-77-3	0	0
	DICHLORODIFLUOROMETHANE	75-71-8	0	298
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0	0
	FRAGRANCE		0	0
	GLYCOLIC ACID	79-14-1	0	5
	ISOPROPYL ALCOHOL	67-63-0	0	267
	METHYL ALCOHOL	67-56-1	0	50
	METHYL PROPYL KETONE	107-87-9	0	56
	N-ALKYL DIMETHYL BENZYL		0	0
	N-BUTYL ACETATE	122-86-4	0	0
	NITRIC ACID	7697-37-2	0	6
	NITROBEN	7727-37-2	0	232
	NON-OSHA		0	110
	OXYLPHENOL POLYETHOXYLATE	8004-87-9	0	2
	POTASSIUM HYDROXIDE		0	333
	PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	0	0
	SODIUM HYDROXIDE	1310-73-2	0	977

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BLDG	CHEMICAL COMPONENT	DAS NUMBER	MAX_POUNDS	AVG_POUNDS
60	SULFURIC ACID	7664-93-9	0	1,079
	TELOMER OF TETRAFLUOROETHYLENE		0	0
	TRADE SECRET/GENERIC/ /	74-84-2	0	3
	TRICHLOROFLUOROMETHANE	75-64-9	0	3
	WATER	7732-18-6	0	1
	WETTING AGENT		0	17
	XYLENE		0	0
61			0	1,393
	1,1,1 TRICHLOROETHANE	17-53-6	0	3,062
	1,1,1 TRIMETHYL-N-TRIMETHYL ETHER		0	29
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	1,393
	1,2,4 TRICHLOROBENZENE	120-92-1	0	2,263
	1,2-DICHLOROBENZENE	95-50-1	0	631
	2-ETHOXYETHYL ACETATE	111-15-9	0	0
	5-METHYL-2-HEXANONE	110-12-0	0	572
	ACETIC ACID	64-19-7	0	240
	ACETONE	67-64-1	0	6,694
	ALCOHOL		0	2
	ALIPHATIC PETROLEUM DISTILLATES		0	5
	ALKYL ARYL SULFONATE		0	0
	ALKYL ARYL SULFONIC ACID		0	0
	AMMONIA	7664-41-7	0	0
	AMMONIUM FLUORIDE	12129-1-8	0	1,363
	AMMONIUM HYDROXIDE	1336-21-6	0	304
	AMMONIUM PERSULFATE	7727-84-0	0	538
	ARGON	7440-37-1	0	512
	AROMATIC BISAZIDE		0	1
	AROMATIC PHENOL		0	1,131
	AROMATICS C9-C12		0	1,131
	ARGININE	7784-42-1	0	0
	BORON TRIBROMIDE	10294-33-4	0	3
	BUTYL ACETATE	123-86-4	0	0
	CARBITOL ACETATE	112-15-2	0	2
	CARBON DIOXIDE		0	1,105
	CARBON TETRACHLORIDE	56-23-5	0	234
	CELLULOSE ACETATE	111-15-9	0	3,320
	CEPIC SULFATE	13590-82-4	0	8
	CHLORINATED BENZENE		0	0
	CHLORINATED HYDROCARBONS		0	745
	CHLORODIFLUOROMETHANE	75-45-6	0	500
	CHROMIC ACID	1333-82-0	0	15
	CRESOL	1319-77-3	0	401
	CRESOL FORMALDEHYDE RESIN	27029-76-1	0	0
	CRESOL-FORMALDEHYDE NOVALAK RESIN	9016-83-5	0	1
	CRESOL-FORMALDEHYDE RESIN		0	2
	CYCLIZED POLYISOPRENE	9003-31-0	0	56
	CYCLOPARAFFINS		0	1,131
	DIAZONAPHTHOQUINONE SENSITIZER		0	1
	DICHLOROSILANE	4109-96-0	0	270

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
61	DODECYLBENZENE SULFONIC ACID	27176-87-0	0	1,647
	ETHANOL	64-17-5	0	0
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	280
	ETHYL BENZENE	100-41-4	0	0
	ETHYLBENZENE	100-41-4	0	186
	ETHYLENE DIAMINE* TETRAACETATE		0	0
	ETHYLENE DIAMINE TETRAACETIC ACID	60-00-1	0	9
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	0	0
	GLYCOL ETHER	107-98-2	0	11
	GUM RESIN		0	5
	HELIUM		0	50
	HMDS		0	315
	HYDROCHLORIC ACID	7647-01-0	0	1,202
	HYDROFINISHED PARAFFINIC PETROLEUM OIL	64742-54-7	0	798
	HYDROFLUORIC ACID	7664-39-3	0	2,528
	HYDROGEN	1333-74-0	0	4
	HYDROGEN CHLORIDE	7647-01-0	0	975
	HYDROGEN PEROXIDE	7722-84-1	0	2,193
	HYDROQUINONE	123-31-9	0	1
	HYDROXY BENZENE		0	287
	HYDROXYACETIC ACID	79-14-1	0	14
	ISOBUTANE	75-28-5	0	0
	ISOPARAFFINIC HYDROCARBONS		0	12
	ISOPROPYL ALCOHOL	67-53-0	0	1,159
	KETONE		0	2
	METHYL ALCOHOL	67-56-1	0	1,935
	METHYL CELLOSOLVE	109-56-4	0	2
	MONOETHANOLAMINE	141-43-5	0	0
	N-BUTYL ACETATE	123-36-4	0	3,621
	N-METHYL PYRROLIDONE		0	1,534
	NAPHTHOQUINONE DIAZIDE	68510-93-0	0	0
	NAPHTHOQUINONE DIZAIDE	68510-93-0	0	0
	NITRIC ACID	7697-37-2	0	1,855
	NITROGEN	7727-37-2	0	321
	NITROUS OXIDE	10024-97-2	0	195
	NON-OSHA PROPRIETARY		0	81
	NONIONIC SURFACTANT	9016-45-9	0	0
	OIL, REFINED MINERAL		0	379
	OXYLPHENOL POLYETHOXYLATE	9004-87-9	0	43
	OXYGEN	7782-44-7	0	382
	PARAFFINS		0	45
	PERCHLOROETHYLENE		0	745
	PERFLUORO-CHEMICAL, C6-18	84508-42-1	0	44
	PHOSPHINE	7803-31-2	0	0
	PHOSPHORIC ACID	7664-38-2	0	1,777
	PHOSPHOROUS OXYCHLORIDE	7719-12-2	0	3
	POLYETHOXYNONYL PHENOL		0	0
	POTASSIUM HYDROXIDE		0	982

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BLDG	CHEMICAL/COMPONENT	GAS NUMBER	MAX_POUNDS	AVG_POUNDS
61	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	0	2,125
	SILANAMINE		0	28
	SILANE	7803-62-8	0	19
	SILICON TETRACHLORIDE	10026-04-7	0	600
	SODIUM AMMONIUM		0	0
	SODIUM CARBONATE	5968-11-6	0	0
	SOLVENT		0	2
	STANNOUS SULFATE	7488-35-3	0	0
	STODDARD SOLVENT	2082-41-3	0	1,749
	SULFURIC ACID	7664-93-9	0	7,815
	TETRAFLUOROMETHANE	75-73-0	0	1,224
	TETRAMETHYL AMMONIUM HYDROXIDE	75-59-2	0	99
	TRADE SECRET/GENERIC/ /	74-83-2	0	25
	TRIETHYANOL AMMONIUM		0	0
	WATER	7732-18-5	0	3,389
	XYLENE		0	1,821
62			0	744
	1,1,1 TRICHLOROETHANE	17-55-6	0	150
	1,1,2-TRICHLORO 1,2,2-TRIFLUOROETHANE	75-13-1	0	1
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	75-13-1	0	754
	1,1-DICHLOROETHANE	75-34-3	0	4
	1,2,4 TRICHLOROBENZENE	120-22-1	0	5
	1,2-DICHLOROETHANE	107-06-2	0	2
	1-AMINO-2-NAPHTHOL-4-SULFONIC ACID	116-63-2	0	0
	1-METHOXY-2-PROPANOL ACETATE	108-65-6	0	0
	1-PROPANOL	71-23-8	0	0
	2-ETHOXYETHANOL	110-90-3	0	8
	2-METHOXYETHYL ACETATE		0	0
	3,5 DIMETHYL-1-HEXYNE-3-OL	107-54-0	0	0
	3-METHYL-1-PHENYL-2-PYRAZOLIN-5-ONE	89-23-9	0	0
	ACETIC ACID	64-19-7	0	70
	ACETONE	67-64-1	0	299
	ACETONITRILE	75-05-8	0	2
	ACRYLIC RESIN		0	0
	ALCOHOL		0	0
	ALUMINUM CHLORIDE	7446-70-0	0	2
	ALUMINUM OXIDE	1344-28-1	0	0
	ALUMINUM SULFATE	10043-01-3	0	1
	AMMONIA	7664-41-7	0	100
	AMMONIUM ACETATE	631-81-3	0	1
	AMMONIUM BIFLUORIDE	1741-49-7	0	7
	AMMONIUM CHLORIDE	12125-02-9	0	1
	AMMONIUM FLUORIDE	12125-1-8	0	59
	AMMONIUM HYDROXIDE	1336-21-6	0	127
	AMMONIUM MOLYBDATE	12054-85-2	0	1
	AMMONIUM NITRATE	6484-52-2	0	14
	AMMONIUM OXALATE	6009-70-7	0	4
	AMMONIUM PERSULFATE	7727-34-0	0	29
	AMMONIUM THIOCYANATE	1762-93-4	0	1

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BLOG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
62	AMYL ACETATE	628-63-7	0	1
	ANTIMONY	7440-36-0	0	0
	ANTIMONY POTASSIUM TARTRATE		0	2
	ARGON	7440-37-1	0	375
	AROMATIC PHENOL		0	2
	AROMATIDE C9-D12		0	2
	ARSENIC	7440-38-2	0	0
	BARBITURIC ACID		0	0
	BARIUM HYDROXIDE	12230-71-6	0	3
	BENZENE	71-43-2	0	4
	BENZIDINE DIHYDROCHLORIDE		0	0
	BENZOIC ACID	65-85-0	0	1
	BISPHENOL A	80-50-7	0	0
	BORIC ACID	10043-35-3	0	5
	BUTYL ACETATE	123-86-4	0	0
	CALCIUM CHLORIDE	10137-74-3	0	1
	CALCIUM OXIDE		0	1
	CALCIUM STEARATE	1592-23-0	0	0
	CALCIUM SULFATE, ANHYDROUS		0	1
	CARBON BLACK	1333-86-4	0	0
	CARBON DIOXIDE		0	645
	CARBON DISULFIDE	75-15-0	0	3
	CARBON TETRACHLORIDE	56-23-5	0	50
	CELLOSOLVE		0	0
	CELLOSOLVE ACETATE	111-15-9	0	71
	CERIC AMMONIUM NITRATE	16774-21-3	0	2
	CERIC SULFATE	10590-82-4	0	0
	CHLORINE	7782-50-5	0	27
	CHLOROBENZENE	108-90-7	0	0
	CHLOROFORM	67-66-3	0	40
	CHLOROPENTAFLUOROETHANE	76-15-3	0	27
	CHLOROTHENE V6		0	459
	CHROMIUM TRIOXIDE		0	10
	COLLOIDAL SILICAS		0	0
	CUPRIC SULFATE	7758-98-7	0	1
	CYANIDE	57-12-5	0	21
	CYCLOPARAFFINS		0	2
	DIBUTYL PHTHALATE	84-74-2	0	0
	DICHLORODIFLUOROMETHANE	75-71-3	0	36
	DICHLOROSILANE	4109-96-0	0	1
	DIGLYNE	111-93-6	0	0
	DIMETHYL PHTHALATE	131-11-3	0	0
	DISODIUM PEROXYDISULFATE	7775-27-1	0	4
	DODECYLBENZENE SULFONIC ACID	27176-87-0	0	2
	ETHACOL		0	8
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL ACETATE	141-78-6	0	9
	ETHYL ALCOHOL	64-17-5	0	20
	ETHYLBENZENE	100-41-4	0	0

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
62	ETHYLENEDIAMINETETRA-(METHYLENEPHOSPHONIC ACID)	1429-59-1	0	17
	ETHYLENE GLYCOL	107-21-1	0	19
	ETHYLENE GLYCOL MONOBUTYL ETHER	111-75-2	0	0
	ETHYLENE GLYCOL MONOMETHYL ETHER	109-86-4	0	21
	ETHYLENEDIAMINE	107-15-3	0	29
	FATTY ACID DERIVATIVE		0	0
	FERRIC CHLORIDE	7705-08-0	0	12
	FERROUS CHLORIDE	7758-94-3	0	11
	FORMALDEHYDE	50-00-0	0	1
	GLYCOL		0	0
	GOLD CHLORIDE		0	0
	HELIUM		0	9
	HEPTANE	108-88-3	0	0
	HEXANE	110-54-3	0	5
	HYDRAZINE	302-01-2	0	5
	HYDROCHLORIC ACID	7647-01-0	0	75
	HYDROFLUORIC ACID	7664-39-3	0	50
	HYDROGEN	1333-74-0	0	4
	HYDROGEN CHLORIDE	7647-01-0	0	0
	HYDROGEN PEROXIDE	7722-84-1	0	19
	HYDROQUINONE	123-31-9	0	3
	INDISO CARMINE	960-22-0	0	0
	IODINE	7553-56-2	0	20
	ISOANYL ACETATE	123-92-2	0	4
	ISOBUTANE	75-28-5	0	0
	ISOPROPYL ACETATE		0	0
	ISOPROPYL ALCOHOL	67-63-0	0	159
	JANUS GREEN B	2869-97-2	0	0
	KETONE		0	0
	LEAD	7439-92-1	0	0
	LEAD ACETATE		0	1
	LEAD DIOXIDE		0	0
	LEARNAL CODE "53"		0	0
	LITHIUM CHLORIDE		0	1
	M-XYLENE	108-38-3	0	0
	MAGNESIUM CHLORIDE	7791-18-6	0	10
	MAGNESIUM HYDROXIDE		0	6
	MAGNESIUM NITRATE	10377-50-3	0	1
	MELANINE	108-78-1	0	1
	MERCURIC CHLORIDE	7487-94-7	0	0
	MERCURIC SULFATE	7783-73-9	0	0
	MERCURY	7439-97-6	0	33
	METHANE	75-82-8	0	0
	METHYL ALCOHOL	67-56-1	0	116
	METHYL ETHYL KETONE	78-93-3	0	16
	METHYL ISOBUTYL KETONE	109-10-1	0	1
	METHYL PROPYL KETONE	107-87-9	0	1
	METHYL T-BUTYL ETHER	1634-04-4	0	10
	METHYLENE CHLORIDE	75-09-2	0	2

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVE_POUNDS
62	MINERAL ACID		0	0
	MINERAL OIL		0	1
	MINERAL SPIRITS	75-45-6	0	32
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MONOETHANOLAMINE	141-43-5	0	17
	MORPHOLINE		0	0
	N,N-DIMETHYL-P-PHENYLENEDIAMINE OXALATE		0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	N-BUTYL ACETATE	123-86-4	0	36
	N-METHYL PYRROLIDONE		0	0
	NICKEL NITRATE		0	1
	NITRIC ACID	7697-37-2	0	103
	NITROBENZENE	98-95-3	0	4
	NITROGEN	7727-37-2	0	3,370
	NITROMETHANE	75-52-5	0	0
	NITROUS OXIDE	10024-97-2	0	65
	O-XYLENE	95-47-6	0	0
	OXALIC ACID	144-62-7	0	1
	OXAMMONIUM HYDROCHLORIDE		0	0
	OXYLPHENOL POLYETHOXYLATE	9004-87-9	0	2
	OXYGEN	7782-44-7	0	227
	P-XYLENE	106-42-3	0	0
	PARAFFINS		0	0
	PERFLUORO-CHEMICAL, C8-12	86508-42-1	0	8
	PETROLEUM ETHER	8032-32-4	0	15
	PHOSPHINE	7803-51-2	0	0
	PHOSPHORIC ACID	7644-38-2	0	99
	PHOTOACTIVE COMPOUND		0	14
	PIGMENTS		0	0
	POTASSIUM BIPHthalATE	877-24-7	0	0
	POTASSIUM BISULFATE	7646-93-7	0	1
	POTASSIUM BROMIDE	7758-02-3	0	1
	POTASSIUM CARBONATE	584-08-7	0	1
	POTASSIUM CHROMATE	7789-09-6	0	2
	POTASSIUM CYANIDE	151-50-8	0	7
	POTASSIUM DICHROMATE	7789-50-9	0	16
	POTASSIUM DICYANODIURATE	13967-50-5	0	1
	POTASSIUM FERRICYANIDE	13743-66-2	0	17
	POTASSIUM HYDROXIDE		0	148
	POTASSIUM IODATE		0	1
	POTASSIUM IODIDE	7681-11-0	0	59
	POTASSIUM MONOCHLORIDE	7447-40-7	0	3
	POTASSIUM NITRATE	7757-79-1	0	1
	POTASSIUM NITRITE	7758-09-0	0	2
	POTASSIUM PERMANGANATE	7722-64-7	0	7
	POTASSIUM PERSULFATE	7727-21-1	0	1
	POTASSIUM PHOSPHATE MONOBASIC		0	0
	POTASSIUM SULFATE		0	2

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
62	PROPRIETARY INGREDIENT		0	0
	PROPYL FORMATE	110-74-7	0	0
	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	0	0
	PYRIDINE	110-86-1	0	1
	PYROCATECROL		0	3
	RESIN	25153-46-2	0	14
	RESORCINOL DIGLYCIDYL ETHER	101-90-6	0	0
	ROBIN	8050-09-7	0	1
	SEC-BUTANOL	78-92-2	0	27
	SILANE	7805-62-5	0	6
	SILICON FLOW CONTROL AGENTS		0	0
	SILOXANE POLYIMIDE		0	0
	SILVER	7440-22-4	0	0
	SILVER NITRATE		0	0
	SILVER SULFATE	10294-26-5	0	0
	SODIUM ACETATE	127-09-3	0	1
	SODIUM ARSENITE	7784-46-5	0	1
	SODIUM BICARBONATE	144-55-8	0	78
	SODIUM BISULFITE	7631-90-5	0	2
	SODIUM BROMIDE	7647-15-6	0	1
	SODIUM CARBONATE	5968-11-6	0	3
	SODIUM CHLORIDE	7647-14-5	0	1
	SODIUM CYANIDE	143-33-9	0	1
	SODIUM DICHROMATE	7789-12-0	0	11
	SODIUM FLUORIDE	7681-49-4	0	2
	SODIUM HYDROXIDE	1310-73-7	0	17
	SODIUM HYPOCHLORITE	7681-82-9	0	3
	SODIUM HYPOPHOSPHITE	7681-53-0	0	1
	SODIUM NITRATE	7631-99-4	0	2
	SODIUM NITRITE	7632-00-0	0	0
	SODIUM PHOSPHATE TRIBASIC	7556-79-4	0	0
	SODIUM SULFATE	7757-82-6	0	1
	SODIUM THIOSULFATE	7772-98-7	0	27
	SOLVENT		0	0
	STANNOUS CHLORIDE	7772-99-8	0	0
	STANNOUS SULFATE	7488-55-3	0	12
	STYRENE/ACRYLATE POLYMER	25213-39-2	0	2
	SUBSTITUTED SILOXANE POLYMER	67752-97-4	0	1
	SULFAMIC ACID		0	0
	SULFUR HEXAFLUORIDE	2551-62-4	0	115
	SULFURIC ACID	7664-93-9	0	123
	SURFACTANT		0	0
	TELOMER OF TETRAFLUOROETHANE		0	0
	TELOMER OF TETRAFLUOROETHYLENE		0	0
	THIOUREA	62-56-6	0	0
	THYMOL		0	0
	TITANIUM (IV) I-PROPOXIDE	546-68-9	0	0
	TITANIUM (IV) I-PROPOXIDE	546-68-9	0	0
	TITANIUM DIOXIDE	13463-67-7	0	0

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BLDG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
62	TOLUENE	108-88-3	0	53
	TRADE SECRET/GENERIC/ /	74-86-2	0	30
	TRICHLOROFLUOROMETHANE	75-64-9	0	1
	TRICHTYLENE GLYCOL DIMETHYL ETHER	112-49-2	0	0
	TRIMETHYL PHOSPHITE	121-45-9	0	0
	TUNGSTEN POWDER		0	0
	VINYL CYCLOHEXENE DIOXIDE	106-87-6	0	0
	VINYLIBENE CHLORIDE	75-35-4	0	0
	WATER	7732-18-5	0	77
	XYLENE		0	27
	ZINC CHLORIDE		0	1
	ZINC STEARATE	557-05-1	0	0
63			0	7,987
	1,1,1 TRICHLOROETHANE	17-55-6	0	1
	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	8,022
	ACETONE	67-64-1	0	59
	ALCOHOL		0	0
	ALKALINE SALTS		0	1
	ARGON	7440-37-1	0	52
	BORON TRICHLORIDE	10294-34-5	0	100
	CARBON DIOXIDE		0	325
	CHLORINE	7782-50-5	0	150
	DICHLORO-DIFLUOROMETHANE	75-71-8	0	1
	ETHYL ALCOHOL	64-17-5	0	0
	ETHYL CYANOACRYLATE		0	0
	FORMALDEHYDE	150-00-0	0	0
	GLYCOL		0	459
	GUM RESIN		0	2
	HELIUM		0	9
	HYDROFLUORIC ACID	7664-39-3	0	133
	HYDROGEN CHLORIDE	7647-01-0	0	0
	HYDROGEN PEROXIDE	7722-84-1	0	1,546
	HYDROQUINONE	123-31-9	0	0
	ISOPROPYL ALCOHOL	67-63-0	0	463
	KETONE		0	0
	METHYL ALCOHOL	67-56-1	0	5
	METHYLENE CHLORIDE	75-09-2	0	0
	MINERAL OIL		0	2
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MORPHOLINE		0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	NITROGEN	7727-37-2	0	348
	NITROUS OXIDE	10024-97-2	0	170
	NON-OSHA		0	13
	NONYLPHENOXYPOLYETHOXYETHANOL	69412-54-4	0	119
	OXYGEN	7782-44-7	0	21
	PHOSPHATE		0	1
	PHOSPHINE	7803-51-2	0	2

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BLOG	CHEMICAL/COMPONENT	CAG NUMBER	MAX_POUNDS	AVG_POUNDS
63	POLY (METHYL METHACRYLATE)		0	0
	POTASSIUM BIPHthalATE	877-24-7	0	0
	SILANE	7303-62-5	0	9
	SODIUM HYDROXIDE	1310-73-2	0	0
	SOLVENT		0	0
	SULFUR HEXAFLUORIDE	2551-82-4	0	31,672
	SURFACTANT		0	0
	TETRAFLUOROMETHANE	75-73-0	0	70
	TETRAMETHYL AMMONIUM HYDROXIDE	75-59-2	0	0
	TUNGSTEN HEXAFLUORIDE		0	65
64	ALCOHOL		0	1
98	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	0	3
	CARBON DIOXIDE		0	325
	DICHLORODIFLUOROMETHANE	75-71-8	0	1
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL CYANOACRYLATE		0	0
	ISOBUTANE	75-28-5	0	0
	ISOPROPYL ALCOHOL	67-63-0	0	0
	LEAD	7439-92-1	0	17
	METHYLENE CHLORIDE	75-09-2	0	0
	MONOETHANOLAMINE	141-43-5	0	0
	NITROGEN	7727-37-2	0	33
	OIL, MINERAL		0	4
	SODIUM CARBONATE	5968-11-6	0	0
	TIN	7440-31-5	0	26
	WATER	7732-18-5	0	6
99	CELLOSOLVE		0	0
	ETHOXYLATED TALL OIL FATTY ACIDS	61791-00-2	0	0
	ETHYL ALCOHOL	64-17-5	0	0
	ISOBUTANE	75-28-5	0	2
	ISOPROPYL ALCOHOL	67-63-0	0	2
	MODIFIED N-ALKYL DIMETHYL AMMONIUM SALTS		0	0
	MONOETHANOLAMINE	141-43-5	0	0
	MORPHOLINE		0	0
	N-ALKYL DIMETHYL BENZYL AMMONIUM SALTS		0	0
	N-ALKYL DIMETHYL ETHYLBENZYL AMMONIUM SALTS		0	0
	SODIUM CARBONATE	5968-11-6	0	0
	SURFACTANT		0	0
	WATER	7732-18-5	0	20
NT	ACETONE	67-64-1	175,319	0
	TETRAMETHYL AMMONIUM HYDROXIDE	75-59-2	124	0
WT	CHLORODIFLUOROMETHANE	75-45-6	0	29
	FORMALDEHYDE	50-00-0	0	0
	HYDROGEN CHLORIDE	7647-01-0	0	0
	KEROSENE	6009-20-6	0	5
	POTASSIUM BIPHthalATE	877-24-7	0	0
	POTASSIUM PHOSPHATE MONOBASIC		0	0
	SODIUM HYDROXIDE	1310-73-2	0	31,275
	SODIUM HYPOCHLORITE	7681-52-9	0	2,318

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QLOG	CHEMICAL/COMPONENT	CAS NUMBER	MAX_POUNDS	AVG_POUNDS
WT	SODIUM PHOSPHATE DIBASIC	7558-79-4	0	0
	STRAIGHT RUN MIDDLE DISTILLATES	64741-44-2	0	14
	SULFURIC ACID	7664-93-9	0	76,728
	THYMOL		0	0

ATTACHMENT VIII.

UNIT	DEL TO	CHEMICAL NAME	density	totallbs	SOLVfract	TOTALLBS	SOLVLBS
3.70 G	4	1,1,1 TRICHLOROETHANE	1.34		0.95	41.32	39.26
1880.93 P	4	1,1,1 TRICHLOROETHANE	1.34		0.95	1918.25	1822.34
3702.577 G	4	ACETONE	0.79		1	24386.03	24386.03
13135.00 G	4	CHALLENGE 100	1.05		0.1	114981.82	11498.18
345.44 G	4	DEVELOPER, WAYCOAT NEGATIVE	0.75		0.01	2159.95	21.60
563.9906 G	4	ETHYL ALCOHOL PURE	0.8		1	3761.59	3761.59
9.00 P	4	FC 93	1.1		0.2	9.00	1.80
22951.58 P	4	FREON TF	1.57		1	22951.58	22951.58
825.6 G	4	HEXAMETHYLDISILAZANE 1%, XYLENE 99%	0.86		1	5919.40	5919.40
1979.58 G	4	ISOPROPYL ALCOHOL	0.79		1	13037.95	13037.95
3.87 G	4	METHANOL	0.79		1	25.46	25.46
275.4 G	4	N-BUTYL ACETATE	0.9		1	2066.41	2066.41
53.23 G	4	PHOTORESIST, SHIPLEY MICROPOSIT FSC-M	0.99		0.68	439.31	298.73
516.60 G	4	PHOTORESIST, WAYCOAT HR 200	0.87		0.909	3747.01	3406.03
495 G	4	RUST-LICK 6-1066-D	1.07		0.2	4415.69	883.14
648.28 G	4	XYLENE	0.87		1	4702.12	4702.12
2.11 G	51	1,1,1 TRICHLOROETHANE	1.34		0.95	23.61	22.43
1.65 P	51	1,1,1 TRICHLOROETHANE	1.34		0.95	1.65	1.57
7794.9 G	51	ACETONE	0.79		1	51339.00	51339.00
27.09 P	51	DE 100	1		0.9674	27.09	26.21
244.88 G	51	DEVELOPER, HOECHST AZ 440 MIF	1		0.04	2041.57	81.66
1888.74 G	51	DEVELOPER, SHIPLEY 318	1		0.03	15746.41	472.39
57.60 G	51	DEVELOPER, SHIPLEY MF 319	1.05		0.02	294.09	5.88
59 G	51	DEVELOPER, SHIPLEY MICROPOSIT MF-322	1		0.02	169.88	3.40
2286 G	51	DEVELOPER, WAYCOAT NEGATIVE	0.75		0.01	14293.79	142.94
433.125 P	51	FREON 14	1		1	433.125	433.13
17.39 P	51	FREON 22	1.2		0.9999	17.39	24.17
3586.18 P	51	FREON TF	1.57		1	3586.18	3586.18
19.47875 P	51	HEXAMETHYLDISILAZANE	0.77		1	19.478753507	26.03
1927.27 G	51	ISOPROPYL ALCOHOL	0.79		1	12693.45	12693.45
6668.46 G	51	METHANOL	0.79		1	43919.99	43919.99
36.00 P	51	MS 180	1		1	36.00	36.00
36.00 P	51	MS 190	1		1	36.00	36.00
1698.3 G	51	N-BUTYL ACETATE	0.9		1	12742.85	13069.69
12.87 G	51	PHOTORESIST, HOECHST AZ 5214	1.03		0.73	110.51	80.67
17.14 G	51	PHOTORESIST, SHIPLEY 1370	1		0.75	142.92	108.58
194.7 G	51	PHOTORESIST, SHIPLEY MICROPOSIT S1813-R2	1.02		0.72	1655.68	1192.09
280.05 G	51	PHOTORESIST, WAYCOAT HR 100	0.87		0.875	2031.24	1777.34
163.97 G	51	PHOTORESIST, WAYCOAT HR 200	0.87		0.909	1189.30	1081.07
106.00 G	51	PHOTORESIST, WAYCOAT SC 100	0.86		0.75	760.00	570.00
	51	PHOTORESIST, WAYCOAT NEG VHR 3	0.87		0.875	130.36	114.07
6181.67 G	51	STRIPPER, BURMAR 712D	1.14		0.775	58751.71	45547.81
60.55 G	51	STRIPPER, SHIPLEY 1165	1.03		0.95	519.93	493.93
564.33 G	51	STRIPPER, SHIPLEY EBR-10	0.94		0.99	4422.52	4378.29
1656.72 G	51	XYLENE	0.87		1	12016.53	12750.06

57120.70 P	54 1,1,1 TRICHLOROETHANE	1.34	0.95	58253.86	55341.17
0.11 G	54 1,1,1 TRICHLOROETHANE	1.34	0.95	1.18	1.12
26892.40 G	54 ACETONE	0.79	1	177119.56	177119.56
930.00 G	54 BUTYL CELLOSOLVE 4:1	1	1	7753.41	7753.41
9.47 G	54 CELLOSOLVE ACETATE	1.01	1	79.77	757.83
63.21 P	54 DE 100	1	0.9674	63.21	61.15
1377.06 G	54 DEVELOPER, HOECHST AZ 440 MIF	1	0.04	11480.54	459.22
4037.28 G	54 DEVELOPER, SHIPLEY 318	1	0.03	33658.80	1009.76
304.46 G	54 DEVELOPER, SHIPLEY MF 319	1.05	0.02	2665.21	53.30
66.54860 G	54 DEVELOPER, SHIPLEY MICROPOSIT MF-322	1	0.02	554.82	11.10
420 G	54 DEVELOPER, WAYCOAT HPRD 402	1	0.035	3501.54	123.72
2438.4 G	54 DEVELOPER, WAYCOAT NEGATIVE	0.75	0.01	15246.71	152.47
5.339556 G	54 ETHYL ALCOHOL PURE	0.8	1	35.61	35.61
36.66 G	54 ETHYLENE GLYCOL	1.12	1	342.31	342.31
95.00 P	54 FREON 116	0.36	1	95.00	95.00
17.39 P	54 FREON 22	1.2	0.9999	17.39	36.69
5020.66 P	54 FREON TF	1.57	1	5020.66	5020.66
185.5339 P	54 HEXAMETHYLDISILAZANE	0.77	1	185.53390053	204.19
2104.16 G	54 HEXAMETHYLDISILAZANE 10%, CELLOSOLVE ACE	0.95	1	16665.28	16681.21
34.4 G	54 HEXAMETHYLDISILAZANE 1%, XYLENE 99%	0.86	1	246.64	246.64
852.99 G	54 ISOPROPYL ALCOHOL	0.79	1	5617.98	5617.98
73 G	54 METHANOL	0.79	1	11431.93	11431.93
160.65 G	54 N-BUTYL ACETATE	0.9	1	1205.41	2135.64
165.16 G	54 PHOTORESIST, HOECHST AZ 5214	1.03	0.73	1418.24	1035.32
1.00 G	54 PHOTORESIST, HOECHST AZ 5214	1.03	0.73	8.59	6.27
16.00 G	54 PHOTORESIST, KTI NEG 747	0.87	0.92	116.05	106.77
1.71 G	54 PHOTORESIST, SHIPLEY 1370	1	0.75	14.29	14.69
12.77 G	54 PHOTORESIST, SHIPLEY MICROPOSIT FSC-M	0.99	0.68	105.43	71.69
159.3 G	54 PHOTORESIST, SHIPLEY MICROPOSIT S1813-R2	1.02	0.72	1354.65	975.34
510.43 G	54 PHOTORESIST, SHIPLEY S1400-27	1.04	0.74	4425.70	7856.15
353.00 G	54 PHOTORESIST, WAYCOAT HPR 204	1.04	0.715	3060.68	2188.39
12.00 G	54 PHOTORESIST, WAYCOAT HPR 205	1.04	0.635	104.05	66.07
293.95 G	54 PHOTORESIST, WAYCOAT HR 100	0.87	0.875	2132.09	1865.58
522.53 G	54 PHOTORESIST, WAYCOAT HR 200	0.87	0.909	3789.99	3445.10
4614.37 G	54 PHOTORESIST, WAYCOAT NEG VHR 3	0.87	0.875	371.02	324.64
16.62 G	54 STRIPPER, BURMAR 712D	1.14	0.775	43855.84	34031.64
7710.32 G	54 STRIPPER, HOECHST AZ 300T	1.03	1	142.71	142.71
657.37 G	54 STRIPPER, HUNT MICROSTRIP	1.25	0.775	80351.15	62272.14
965.22 G	54 STRIPPER, SHIPLEY 1165	1.03	0.95	5644.94	5362.69
	54 XYLENE	0.87	1	7000.93	9088.67
P	57 1,1,1 TRICHLOROETHANE	1.34	0.95	43.47	14.04
G	57 ACETONE	0.79	1	0.00	80.29
P	57 BLACO-TRON TMS PLUS	1.46	0.955	6300.00	2045.61
G	57 DEVELOPER, SHIPLEY MICROPOSIT MF-322	1	0.02	0.00	0.02
P	57 FC 40	1	1	35.2	11.97
P	57 FC 70	1.9	1	6.00	2.04
P	57 FC 77	1.8	1	66.00	22.44
P	57 FC 84	1.7	1	1361.7621145	463.00
G	57 FLUX, KESTER 135	0.88	0.59	0.00	8.83
P	57 FREON 14	1	1	39.375	13.39

P	57 FREON 502	1	0.7	900.00	214.20
P	57 FREON TF	1.57	1	7889.61	2682.47
P	57 FREON TMC	1.42	1	220.00	74.80
P	57 FREON TMS	1	1	55.00	56.10
G	57 IGEPAI CA-630	1	0.01	0.00	0.23
G	57 ISOPROPYL ALCOHOL	0.79	1	0.00	2306.55
G	57 METHANOL	0.79	1	0.00	17.31
G	57 METHYL T-BUTYL ETHER	0.74	0.02	0.00	0.13
G	57 MINERAL SPIRITS	0.76	1	0.00	21.54
G	57 PHOTORESIST, SHIPLEY 1370	1	0.75	0.00	7.29
G	57 THINNER, KESTER 4163	0.79	0.96	0.00	299.07
G	57 XYLENE	0.87	1	0.00	11.84
42.63 P	58 1,1,1 TRICHLOROETHANE	1.34	0.95	43.47	27.26
35.85654 G	58 ACETONE	0.79	1	236.16	155.87
6300.00 P	58 BLACO-TRON TMS PLUS	1.46	0.955	6300.00	3970.89
0.447837 G	58 DEVELOPER, SHIPLEY MICROPOSIT MF-322	1	0.02	3.73	0.05
35.2 P	58 FC 40	1	1	35.2	23.23
6.00 P	58 FC 70	1.9	1	6.00	3.96
66.00 P	58 FC 77	1.8	1	66.00	43.60
1361.762 P	58 FC 84	1.7	1	1361.7621145	898.76
6.00 G	58 FLUX, KESTER 135	0.88	0.59	44.02	17.14
39.375 P	58 FREON 14	1	1	39.375	25.99
900.00 P	58 FREON 502	1	0.7	900.00	415.80
7889.61 P	58 FREON TF	1.57	1	7889.61	5207.14
220.00 P	58 FREON TMC	1.42	1	220.00	145.20
165.00 P	58 FREON TMS	1	1	165.00	108.90
8.00 G	58 IGEPAI CA-630	1	0.01	66.70	0.44
1030.02 G	58 ISOPROPYL ALCOHOL	0.79	1	6783.97	4477.42
7.73 G	58 METHANOL	0.79	1	50.92	33.61
3.17 G	58 METHYL T-BUTYL ETHER	0.74	0.02	19.56	0.26
10.00 G	58 MINERAL SPIRITS	0.76	1	63.36	41.82
3.43 G	58 PHOTORESIST, SHIPLEY 1370	1	0.75	28.58	14.15
139.12 G	58 THINNER, KESTER 4163	0.79	0.96	916.27	580.55
4.80 G	58 XYLENE	0.87	1	34.83	22.99
428.7195 G	59 ACETONE	0.79	1	2823.65	2823.65
630.00 P	59 BLACO-TRON TMS PLUS	1.46	0.955	630.00	601.65
4.00 G	59 DEVELOPER, ASPECT SYSTEM MFT-1 TRACK	1	0.01	33.35	0.66
216.00 G	59 DEVELOPER, HOECHST AZ 327 MIF	1	0.05	1800.79	90.04
2032 G	59 DEVELOPER, SHIPLEY MF 314	1	0.03	16940.78	508.78
54.59 G	59 DEVELOPER, SHIPLEY MF 319	1.05	0.02	477.90	9.56
8.00 G	59 DEVELOPER, SHIPLEY MFI.21	1.05	0.02	70.03	1.40
3.00 G	59 DEVELOPER, SHIPLEY MICROPOSIT MF 321	1.05	0.02	26.26	0.53
0.179134 G	59 DEVELOPER, SHIPLEY MICROPOSIT MF-322	1	0.02	1.49	0.03
73.33 G	59 ETHYLENE GLYCOL	1.12	1	684.71	684.71
190.00 P	59 FREON 116	0.36	1	190.00	190.00
118.125 P	59 FREON 14	1	1	118.125	118.13
921.74 P	59 FREON 22	1.2	0.9999	921.74	921.65
70.00 P	59 FREON 23	1.52	1	70.00	70.00
5020.66 P	59 FREON TF	1.57	1	5020.66	5020.66
64.00 P	59 HAOLCARBON 115	1.3	1	64.00	64.00
27.47632 P	59 HEXAMETHYLDISILAZANE	0.77	1	27.476327365	27.48
639.70 G	59 HEXAMETHYLDISILAZANE 10%, CELLOSOLVE ACE	0.95	1	5066.50	5066.50
527.08 G	59 ISOPROPYL ALCOHOL	0.79	1	3471.49	3471.49
204.89 G	59 METHANOL	0.79	1	1349.43	1349.43

0.00 G	59 PHOTORESIST, HOECHST AZ 5206	1.01	0.81	134.73	109.13
2.90 G	59 PHOTORESIST, HOECHST AZ 5214	1.03	0.73	368.37	268.91
1.00 G	59 PHOTORESIST, SHIPLEY DKYED SYSTEM 818M	0.99	0.7	8.25	5.78
1.00 G	59 PHOTORESIST, SHIPLEY MEGAPOSIT S1713	1.02	1	8.50	8.50
4.00 G	59 PHOTORESIST, SHIPLEY MICROPOSIT S1400-33	1.02	0.67	34.01	393.13
1.00 G	59 PHOTORESIST, SHIPLEY MICROPOSIT S1400-37	1.02	0.63	8.50	5.36
55.13 G	59 PHOTORESIST, SHIPLEY MICROPOSIT S1650	1	0.62	459.58	284.94
2.00 G	59 PHOTORESIST, SHIPLEY S1400	1	1	16.67	16.67
423.54 G	59 PHOTORESIST, SHIPLEY S1400-27	1.04	0.74	3672.28	2717.49
78.00 G	59 PHOTORESIST, SHIPLEY S1418 J2	1	0.61	650.29	396.67
4.00 G	59 PHOTORESIST, SHIPLEY SYSTEM 812	0.99	0.74	33.01	24.43
1.00 G	59 PHOTORESIST, SHIPLEY SYSTEM 818	0.99	0.7	8.25	5.78
274.99 G	59 PHOTORESIST, SHIPLEY THINNER A	1.04	1	2384.25	2384.25
3635.38 G	59 STRIPPER, HOECHST AZ 300T	1.03	1	31217.42	31217.42
1133.10 G	59 STRIPPER, SHIPLEY 1165	1.03	0.95	9730.09	9243.59
2459.46 G	59 STRIPPER, SHIPLEY EBR-10	0.94	0.99	19274.25	19081.51
80.40 P	59 TEOS	0.94	1	80.40	80.40
18001.00 P	59 TEOS	0.94	1	18001.00	18001.00
1.13 G	59 TEOS	0.94	1	8.82	8.82
4.00 G	59 THINNER, HOECHST AZ 1500	0.96	0.99	32.01	31.69
180.00 G	60 5-METHYL-2-HEXANONE	0.81	1	1215.53	1215.53
77.949 G	60 ACETONE	0.79	1	513.39	513.39
132.78 G	60 ISOPROPYL ALCOHOL	0.79	1	874.50	874.50
3.87 G	60 METHANOL	0.79	1	25.46	25.46
1.00 G	60 RINSE, KTI COP 1	0.8	1	26.68	26.68
42.63 P	62 1,1,1 TRICHLOROETHANE	1.34	0.95	43.47	41.30
97.43625 G	62 ACETONE	0.79	1	641.74	641.74
1.06 G	62 DEVELOPER, HOECHST AZ 440 MIF	1	0.04	8.84	0.35
65.98 G	62 DEVELOPER, SHIPLEY 318	1	0.03	550.09	16.50
0.223918 G	62 DEVELOPER, SHIPLEY MICROPOSIT MF-322	1	0.02	1.87	0.04
2.669778 G	62 ETHYL ALCOHOL PURE	0.8	1	17.81	17.81
39.375 P	62 FREDN 14	1	1	39.375	39.38
16 P	62 HADLCARBON 115	1.3	1	16	16.00
4.02 G	62 HEXAMETHYLDISILAZANE 10%, CELLOSOLVE ACE	0.95	1	31.86	31.86
28.16 G	62 ISOPROPYL ALCOHOL	0.79	1	185.50	185.50
7.73 G	62 METHANOL	0.79	1	50.92	50.92
5.81 G	62 METHYL T-BUTYL ETHER	0.74	0.02	35.86	0.72
1.00 G	62 PHOTORESIST, HOECHST AZ 4620	1.08	0.58	9.00	5.22
8.00 G	62 PHOTORESIST, HOECHST AZ 4903	1.08	0.52	72.03	37.46
1.07 G	62 PHOTORESIST, HOECHST AZ 5214	1.03	0.73	9.21	6.72
0.86 G	62 PHOTORESIST, SHIPLEY 1370	1	0.75	7.15	5.36
7.88 G	62 PHOTORESIST, SHIPLEY MICROPOSIT S1650	1	0.62	65.65	40.71
2.43 G	62 PHOTORESIST, SHIPLEY S1400-27	1.04	0.74	21.07	15.60
7.90 G	62 PHOTORESIST, WAYCOAT HR 200	0.87	0.909	57.32	52.10
2.00 G	62 STRIPPER, HOECHST AZ 300T	1.03	1	17.17	17.17
12.97 G	62 STRIPPER, SHIPLEY 1165	1.03	0.95	111.41	105.84
21 G	62 STRIPPER, SHIPLEY EBR-10	0.94	0.99	33.00	32.67
100.00 G	62 TEOS	0.94	1	7366.57	7366.57
1.32 G	63 1,1,1 TRICHLOROETHANE	1.34	0.95	14.76	14.02
116.9235 G	63 ACETONE	0.79	1	770.09	770.09

35 B	63 DEVELOPER, SHIPLEY MF 319	1.05	0.02	3565.87	71.32
0.00918 G	63 DEVELOPER, SHIPLEY MICROPOSIT MF-322	1	0.02	1.87	0.04
105.6 P	63 FC 40	1	1	105.6	105.60
264.00 P	63 FC 77	1.8	1	264.00	264.00
212.7753 P	63 FC B4	1.7	1	212.7753304	212.78
10041.32 P	63 FREON TF	1.57	1	10041.32	10041.32
25.20953 P	63 HEXAMETHYLDISILAZANE	0.77	1	25.209530357	25.21
18.10 G	63 HEXAMETHYLDISILAZANE 10%, CELLOSOLVE ACE	0.95	1	143.39	143.39
1718.05 B	63 ISOPROPYL ALCOHOL	0.79	1	11315.45	11315.45
1.50 G	63 PHOTORESIST, SHIPLEY MICROPOSIT SAL 601-	1.03	0.79	12.88	10.18
31.60 B	63 PHOTORESIST, SHIPLEY S1400-27	1.04	0.74	273.97	202.74
8.00 B	63 PHOTORESIST, SHIPLEY S1418 J2	1	0.61	66.70	40.68
1.01 B	63 PHOTORESIST, SHIPLEY THINNER A	1.04	1	8.80	8.80
4.88 B	63 THINNER, KESTER 4163	0.79	0.96	32.15	30.86

ATTACHMENT IX.

SOLVENTS IN WASTEWATER: BASED ON 1989 FLOW RATES

MONTH (PPB)	FLOW (MGM)	FLOW (MGD)	PHENOL 153	CRESOL 76.82	BROMODICHLOROMETHANE 5	CHLOROFORM 5.6	DIBROMOCHLOROMETHANE 3.9	XYLENE 1	ACETONE 1700	ETHANOL 2150	ISOPROPYL	ALCOHOL 5050	METHANOL 1250	DIETHANLAMINE 4863.8971067	MONOETHANLAMINE 4863.8971067	TRIEHANLAMINE 4021.3830314
JAN	29.32	0.95	37.40	18.78	1.22	1.37	0.95	0.24	415.55	525.55	1234.43	305.55	1343.86	1346.38	982.97	
FEB	27.02	0.96	34.47	17.30	1.13	1.26	0.88	0.23	382.95	484.32	1137.59	281.58	1238.44	1240.76	905.86	
MAR	31.08	1.00	39.64	19.91	1.30	1.45	1.01	0.26	440.49	557.10	1308.53	323.89	1424.53	1427.20	1041.98	
APR	32.61	1.09	41.60	20.89	1.36	1.52	1.06	0.27	462.18	584.52	1372.94	339.84	1494.66	1497.46	1093.27	
MAY	26.86	1.03	34.26	17.20	1.12	1.25	0.87	0.22	380.68	481.45	1130.86	279.91	1231.11	1233.42	900.50	
JUN	37.05	1.23	47.26	23.73	1.54	1.73	1.20	0.31	525.11	664.10	1559.87	386.11	1698.16	1701.34	1242.12	
JUL	39.40	1.67	50.26	25.23	1.64	1.84	1.28	0.33	558.41	706.23	1658.81	410.60	1805.87	1809.26	1320.91	
AUG*	30.44	0.97	38.83	19.49	1.27	1.42	0.99	0.25	431.41	545.61	1281.54	317.21	1395.15	1397.77	1020.49	
SEP	45.84	1.53	58.47	29.36	1.91	2.14	1.49	0.38	649.69	821.66	1929.95	477.71	2101.05	2104.98	1536.81	
OCT	49.74	1.60	63.45	31.86	2.07	2.32	1.62	0.41	704.96	891.57	2094.15	518.35	2279.80	2284.07	1667.56	
NOV	45.25	1.51	57.72	28.98	1.89	2.11	1.47	0.38	641.32	811.09	1905.11	471.56	2074.00	2077.89	1517.03	
DEC	43.40	1.40	55.36	27.80	1.81	2.03	1.41	0.36	615.10	777.93	1827.22	452.28	1989.21	1992.94	1455.01	
ANNUAL TO	438.01	14.95	558.71	280.52	18.26	20.45	14.24	3.65	6207.86	10001.12	18441.00	4564.60	12822.00	12822.00	10601.00	
TOTAL VOC	76808.37															
TOTAL TON	38.40															

* DUE TO ELECTRONIC EQUIPMENT DAMAGE, AUGUST 1989 DATA IS CONSIDERED INACCURATE; THEREFORE AUGUST 1988 FLOWS ARE USED.

CALCULATIONS OF SOLVENTS IN WASTE WATER FROM EACH BLDG

BLDG	(1) AVERAGE FLOW RINSE WATER (GPM)	(2) AVERAGE FLOW SCRUBBER WATER (GPM)	(1)+(2) (GPM)	PERCENT OF TOTAL FLOW (%)	SOLVENT (TONS)
4	103	20	123	34.55%	13.27
51	34	20	54	15.17%	5.82
52			0	0.00%	0.00
53			0	0.00%	0.00
54	60	18	78	21.91%	8.41
55		7	7	1.97%	0.76
57	17	3	20	5.62%	2.16
58	4	8	12	3.37%	1.29
59	9	7	16	4.49%	1.73
60	12	3	15	4.21%	1.62
61		7	7	1.97%	0.76
62		8	8	2.25%	0.86
63	8	8	16	4.49%	1.73
TOTAL FLOW =			356	1	38.4

Rec'd 4-3-90



March 30, 1990

Mr. C. H. Fancy, P.E.
Bureau Chief
Bureau of Air Regulation
Florida Department of Environmental Regulation
Twin Towers Office Bldg.
2600 Blair Stone Road
Tallahassee, FL 32399-2400

SUBJECT: Solvent Mass Balance Report for 1989
Harris Semiconductor, Melbourne

<u>Permit Nos.</u>	<u>Bldg.</u>
AC 05-147321	54
AC 05-150794	59
AC 05-157786	51
AC 05-157787	62
AC 05-158237	63
AC 05-159484	58
AC 05-161706	57
AC 05-164544	55
AC 05-165757	4
AC 05-168460	60

Dear Mr. Fancy:

Enclosed is the annual solvent mass balance report for calendar year 1989. Harris believes that the enclosed report supports our previous position that the annual air emissions from the facility are within the range represented by the permit applications.

If you should have any questions about the enclosed information please call me at (407) 729-5736.

Sincerely,

Kent Smith
Manager, Environmental Services

c.c. A.T. Sawicki, FDER Orlando
B. Mitchell, FDER Tallahassee

sent to Alan Zahrn 4-4-90

PM
3-14-91

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General



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March 14, 1990

MAR 20 1991

MAR 20 1991

Mr. Pius Sanabani
Air Permitting Engineer
Air Resource Management
Florida Department of Environmental Regulation
3319 Maguire Boulevard, Suite 232
Orlando, FL 32803-3767

DER-BAQM

DER-BAQM

SUBJECT: 1991 Source Test Report on potential Acid and VOC emissions
Permit Numbers: AC 05-189176, AC 05-189177, AC 05-189178, AC 05-190042,
AC 05-190668, AC 05-190797, AC 05-190798, AC 05-190799, AC 05-190800
AC 05-150794
HARRIS SEMICONDUCTOR

Dear Mr. Sanabani:

Enclosed, please find two copies of the test report of the annual monitoring program of all the sources/Buildings at Harris Corporation, Semiconductor Sector on VOC/solvent emissions, as required by specific condition 6 of the above mentioned construction permits.

As identified by previous correspondence, testing was conducted in the latter part of January. The attached tables indicate the annual VOC emissions from every source/Building based on stack test sampling results and actual operating hours.

The monitoring test for the industrial water and vacuum degasifier flare system will be conducted at a later date, prior to which you will be notified accordingly.

Should you have any questions or require any additional information, please contact me at (407) 729-5301.

Sincerely,

Constantine Triantafyllidis

Constantine Triantafyllidis, R.E.P.
Environmental Engineer

- cc: C. Fancy
- B. Mitchell
- A. Zahm, P.E.
- K. Smith

TABLE 1. SUMMARY OF 1991 ANNUAL MONITORING RESULTS ON VOC/SOLVENT EMISSIONS EXPRESSED AS PROPANE AND BASED ON AN ENTIRE WORKSHIFT PERIOD DURING REGULAR OPERATING HOURS

BLDG NUMBER	SCRUBBER NUMBER	PPM AS PROPANE	VOLUM. FLOW	LBS/HR AS C3H8	TOTAL MONITORED BLDG EMISS LBS/HR	ACTUAL HRS/YR OF BLDG OPERATION	1991 BLDG EMISS TONS/YR
04	F04S02	0.800	10683	0.059	1.161	6744	3.916
	F04S03	2.820	6033	0.117			
	F04S06	0.420	8570	0.025			
	F04S08	28.200	4972	0.961			
51	F51S02	0.240	8560	0.014	5.331	6540	17.433
	F51S03	19.090	19700	2.578			
	F51S04	0.470	18739	0.060			
	F51S05	19.070	20485	2.678			
54	F54S01	2.570	35150	0.619	5.697	6468	18.425
	F54S03	16.500	28827	3.261			
	F54S04	12.360	21440	1.817			
57	F57S01	5.290	14447	0.524	0.524	6936	1.817
58	F58S01	7.550	7692	0.398	0.664	6936	2.302
	F58S02	2.950	2178	0.044			
	F58E01	7.070	4572	0.222			
59	F59S02	3.130	9421	0.202	0.398	7242	1.440
	F59EOX	19.410	1470	0.196			
60	F60S01	0.090	25757	0.016	0.013	6216	0.040
62	F62S02	0.000	10957	0.000	0.000	4580	0.000
63	F63S02	18.100	6419	0.797	1.304	6672	4.350
	F63S03	8.400	8809	0.507			
				-----	-----	-----	
				15.095	15.095		49.722

TABLE 2. SUMMARY OF 1991 ANNUAL MONITORING RESULTS
ON VOC/SOLVENT EMISSIONS PER BUILDING
AT HARRIS SEMICONDUCTOR

BLDG NUMBER	1991 BLDG EMISSIONS TONS/YR
04	3.916
51	17.433
54	18.425
57	1.817
58	2.302
59	1.440
60	0.040
62	0.000
63	4.350

	49.722



March 12, 1990

Express Mail

Charles M. Collins, P.E.
Program Administrator
Air Resources Management
Central Florida District
Florida Department of Environmental Regulation
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803

RE: Brevard County - AP
Warning Notice - OWN-AP-89-0151

Dear Mr. Collins:

This letter is submitted on behalf of Harris Corporation, Semiconductor Sector ("Semiconductor") to follow-up on our letter of February 16. In that letter, it was stated that Semiconductor would, within 30 days, submit a schedule outlining the activities that will be undertaken to identify reasonable and appropriate solutions to the odor issue.

As mentioned in previous correspondence, Jacobs Engineering Group, Inc. ("Jacobs") has been retained by Semiconductor to facilitate the odor issue investigation. In a recent meeting, Jacobs recommended a revision of the suggested activities as outlined in the February 16 letter. As such, Jacobs has recommended that the odor investigation continue as follows:

Work Item One : Chemical inventory and historical stack monitoring information will be reviewed and used in a dispersion model to determine areas that may be affected by odors. This change was recommended by Jacobs as opposed to running stack analyses on all emission points from Bldg. 54. Jacobs feels that previous monitoring activities will provide the information needed for the dispersion modeling.

This item is scheduled to be completed by March 30, 1990.

Work Item Two: Through the use of an Organic Vapor Analyzer in GC mode, investigate the level of constituents present at likely "odor hot spots." These areas would be determined through the use of the computer dispersion model outlined in Work Item One.

This item is scheduled for completion by April 27, 1990.

This is the plan of action Semiconductor intends to pursue.

Subsequent to these activities, Semiconductor will submit a completed report, by May 4, 1990, detailing the information obtained during completion of the Work Items. This report will include any proposed modifications or process changes.

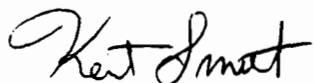
To supplement these activities, Semiconductor has already contracted with Air Consulting and Engineering (ACE) to conduct GC/MS sampling from one of the stacks at Building 54. The stack chosen is the most likely candidate to be contributing to the alleged odor problem. Due to the prohibitive cost of running complete analyses on all stacks (\$60,000 per stack for 24 hours of sampling as quoted by Jacobs), we chose to sample one stack for a period of 10 operating hours. This will give us total coverage of first shift activities along with 1 hour on either side of shift changes. This data will subsequently be utilized in the dispersion model to add further background information to the investigation.

In addition to these activities, Semiconductor has taken a close look at the processes within the Building 54 wafer fabrication area that may be a source of the odor issue. We are contacting our customers to determine if it may be possible to replace some of the process chemicals currently in use with substitutes that may have less potential to cause or contribute to odors at the facility. We are also continuing to review operating procedures and process configurations in order to ensure that reasonable steps have been taken in the proper control of the subject chemicals.

As indicated in my telephone conversation with Caroline Shine on March 8, Semiconductor has requested the Tallahassee DER office for an extension on the submission of appropriate operating permit applications for this facility. It does not appear worthwhile for either DER or Semiconductor to put effort into obtaining operating permits that will be ultimately denied.

Please contact me at 729-5736 if I can provide any further assistance in this matter.

Yours truly,



Kent Smith
Manager, Environmental Services

cc: D. R. Erdley
R. R. Sands
L. R. Hutker
J. R. Steiner



RECEIVED

MAR 12 1990

DER-BAQM

March 8, 1990

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

Subject: Extension of Consolidated Construction Permits
Harris Semiconductor, Melbourne

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

Dear Mr. Fancy:

In accordance with F.A.C. rule 17-4.09 and Specific Condition No. 13 of the above mentioned air permits, the purpose of this letter is to request an extension of the expiration dates until December 30th, 1990.

Harris Semiconductor and the Orlando FDER are currently undergoing negotiations concerning an objectionable odor warning notice issued to the Palm Bay site in December (warning notice OWN-AP-89-0151.) The Orlando FDER has indicated that Semiconductor will not be issued operating permits in June if the odor issue is not resolved by that time. If the Department requires Semiconductor to submit applications for operating permits in March which it intends to deny because a solution to this issue has not been fully implemented by June, Semiconductor will be forced to initiate administrative litigation or operate without permits. If Semiconductor and the Agency are both working to resolve this issue, you may agree that this dilemma would not be desirable from the perspective of either Semiconductor or the Department.

To avoid an unnecessary permitting crisis while the Department and Semiconductor reach agreement on the means of solving the odor issue, Semiconductor is requesting that the Department extend the expirations dates by a period of six (6) months. This is currently the expiration date of the construction permit for building 4 (permit no. AC 05-165757.)

If this extension is granted, operating permit applications for all applicable buildings on the site will be submitted by September 30th, 1990. Please note that this will not affect the submittal of the annual operating reports and mass balance information for 1989, which is currently due by March 31st.

Please feel free to phone me at (407) 729-4061 if you have any questions.

Sincerely, *Nancy Baldisserotto*

Nancy Baldisserotto
Senior Environmental Engineer
Environmental Services

cc: T. Sawicki
B. Mitchell

\extnrqst.2

P 938 762 805

RECEIPT FOR CERTIFIED MAIL

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

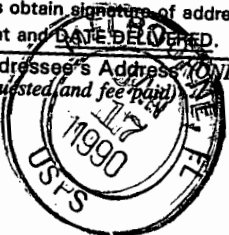
Sent to Kent Smith	
Street and No. P.O. Box 883	
City, State, and ZIP Code Melbourne, FL	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

PS Form 3800, June 1985

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. (Extra charge) 2. Restricted Delivery (Extra charge)

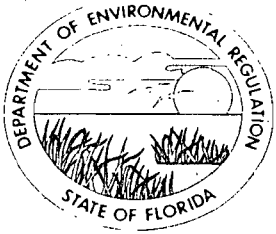
3. Article Addressed to: Kent Smith Harris Semiconductor P.O. Box 883 Melbourne, FL 32902-0883	4. Article Number P 938 762 805
5. Signature - Address X	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
6. Signature - Agent X <i>Willie [Signature]</i>	Always obtain signature of addressee or agent and DATE DELIVERED .
7. Date of Delivery	8. Addressee's Address (ONLY if requested and fee paid)



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

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:

AC 05-147321	Bldg. 54
-150794	59
-157786	51
-157787	62
-158237	63
-159484	58
-161706	57
-164544	55

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

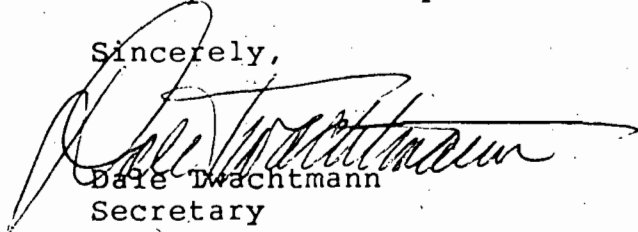
B. Attachment to be Incorporated

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,



Dale Twachtman
Secretary

DT/plm

Attachment


c: C. Collins, Central Dist.
N. Baldisserotto, HS



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Dale Twachtmann
FROM: Steve Smallwood 
DATE: January 8, 1990
SUBJ: Amendment of Construction Permits
Harris Semiconductor

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

SS/plm



PM
12-21-89
Orlando, FL
EMERY
Worldwide
233444306 7

File # 87

December 20, 1989

Mr. C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental Regulation
Twin Towers Office Bldg.
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

SUBJECT: Solvent Mass Balance Report for 1988
Harris Semiconductor, Melbourne

Dear Mr. Fancy:

Enclosed is the annual solvent mass balance report for calendar year 1988. Harris believes that the enclosed report supports our previous position that the annual air emissions from the facility are within the range represented by the permit applications.

As of November 9th, 1989, construction permits have been granted for all applicable buildings on the Melbourne site. Therefore, the mass balance will be performed on each permitted building for calendar year 1989.

If you should have any questions about the enclosed information, please call me at (407) 729-5736.

Sincerely,

Kent Smith
Manager, Environmental Services

c.c. A.T. Sawicki, FDER Orlando

RECEIVED
DEC 26 1989
DER-BAQM

SOLVENT MASS BALANCE

*BEGINNING INVENTORY OF FULL CONTAINERS,
CYLINDERS, AND STORAGE TANKS AT
BEGINNING OF CALENDAR YEAR*

+ PLUS +

*ALL PURCHASED DELIVERIES AFTER THE
BEGINNING INVENTORY (VERIFIABLE BY INVOICES)*

- MINUS -

*ALL QUANTITIES PICKED-UP AND SHIPPED-OFF THE
PREMISE AFTER THE BEGINNING INVENTORY
(VERIFIABLE BY INVOICES)*

- MINUS -

*ALL QUANTITIES DEEPWELL INJECTED (JUSTIFIED
BY ASSUMPTIONS AND SCRUBBER EFFICIENCIES)*

- MINUS -

*AN ENDING INVENTORY OF FULL CONTAINERS,
CYLINDERS, AND STORAGE TANKS AT BEGINNING
OF FOLLOWING CALENDAR YEAR*

HARRIS SEMICONDUCTOR
1988 SOLVENT MATERIAL BALANCE

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ATTACHMENT 2	-	INDUSTRIAL WASTE WATER DISCHARGE DATA
ATTACHMENT 3	-	AIR EMISSIONS DATA
ATTACHMENT 4	-	CHEMICAL USAGE DATA

HARRIS SEMICONDUCTOR
1988 SOLVENT MATERIAL BALANCE

Introduction:

This report addresses the Harris Semiconductor facility and reflects the amounts of all VOC / solvents, purchased, reclaimed, disposed of off-site, discharged in waste water, or released to the atmosphere. This report covers the period of January 1, 1988 through December 31, 1988. All available sources of information were utilized. The following reports and sources of information were used in preparing this report:

- 1.) In-house Accounting Reports
- 2.) In-house COM Stock Reports
- 3.) Harris Waste Profiles
- 4.) Harris Waste Analysis Reports
- 5.) Shipping Manifests
 - a.) Bulk Shipments
 - b.) Drum Shipments
- 6.) ACE Air Monitoring Reports
- 7.) Daily Waste Water Reports
- 8.) Envirofact Lab Reports

The data was evaluated by comparing the chemical purchasing records with the known emission and shipping records. More detailed discussion of the data sources, data evaluation, error analysis, conclusions and recommendations are included in detail later in this report.

SUMMARY:

A similar report was prepared in 1988, which covered the period of calendar year 1987. This was the most comprehensive attempt of this nature made to quantify the volume of VOC / solvents consumed by Harris Semiconductor and to identify their final disposition. Prior to the recent monitoring activities, it had been assumed that most of the chemicals were collected and transported off-site for ultimate disposal. Many of the recommendations proposed in the 1987 report, to improve the accuracy of the information, were implemented or are in the process of being implemented. Many of these improvements have increased the quality and accuracy of the 1988 report, which is far more comprehensive. As a result of these changes it is possible to draw more meaningful conclusions.

The following information is offered as a brief summary of the detailed data which is included to document these results:

VOC's / Solvents Discharged by Source

Waste Water	68,633	pounds
Air Emissions	228,960	pounds
Waste Shipments	604,203	pounds
	<hr/>	
Total	901,796	pounds
Chemicals Purchased	1,023,576	pounds
Chemicals Inventoried 1987	69,888	pounds
Chemicals Inventoried 1988	122,858	pounds
	<hr/>	
	970,606	pounds
Quantity Variance	68,810	pounds
Percent Variance	7.1	%

A comparison of the data would seem to indicate a high degree of accuracy. The percent variance number is presented for comparative purposes only. The data utilized in computing these figures are the most accurate available. However, there are a number of potential sources of error which would seem to indicate that the actual margin for error is greater than 7 percent. However, it is possible that the various sources of error cancel themselves out and yield a range of error of less than ten percent.

It is Semiconductor's intention to continue to reduce the potential for error in an attempt to continue to improve the quality of the data.

DISCUSSION:

MATERIAL SAFETY DATA SHEETS:

Most of the chemicals used by Semiconductor in its manufacturing processes are not pure chemical compounds, but rather mixtures or trade name chemicals. Therefore, it is necessary to rely on the manufacturers' MSDS to obtain information on the specific components of the process chemicals used.

Many manufacturers consider the exact formulation of their products proprietary and therefore will provide only approximate concentrations for the specific components. The listed range of a particular component can be quite large. For purposes of this report when it was necessary to use a concentration range for a solvent the mid point of the range was used for purposes of calculation. This approach was utilized in an attempt to neither over nor under report on the quantity of chemical purchased.

WASTE PROFILES:

In 1984, Semiconductor began compiling and evaluating detailed chemical profiles of the specific waste streams generated by the manufacturing processes. These profiles are based on in house laboratory analysis. The chemical analysis is used to define a range for the individual components of the various constituents. These profiles are evaluated annually and changed to reflect any significant changes that may have occurred in the manufacturing processes. In addition to evaluation of existing profiles, new profiles are added when a new process or chemical is introduced which does not fit any existing waste description. At the present time, there are 54 waste profiles that are managed by the environmental staff of Semiconductor.

WASTE ANALYSIS:

The most accurate data base on waste streams is currently on bulk shipments. Initially, this data base was created to insure the safe shipment of large quantities of chemicals over public roads by licensed transporters. A chemical analysis is performed on every bulk shipment.

These analyses accompany every bulk shipment which leaves the Semiconductor facility. The waste analysis is performed for these components which are likely to be present in the waste stream.

In addition to bulk shipments, Semiconductor collects and ships a significant amount of wastes in fifty-five gallon drums and smaller containers. Drummed wastes are collected at point of use locations and brought to a central location within the facility, where they are checked and temporarily stored prior to shipment. In 1988, Semiconductor shipped off site approximately 300,000 gallons of waste for disposal or recycle. Approximately 50 percent of this was in bulk shipments. The balance was in 55 gallon drums. This averages out to around 200 drums per month. The number of containers generated makes it impractical to analyze samples from every container. Therefore, drummed wastes

are spot checked, and random samples are taken for analysis.

WASTE SHIPMENTS:

All shipments leaving Semiconductor's facility, whether sent for recycle or disposal, are accompanied by a Hazardous Waste Uniform Manifest. All current State, EPA, and DOT regulations are followed in the preparation, distribution, and retention of the waste manifests. In addition to the original hard copy retention of these records, detailed information is entered into a computer data base system for record retention, reporting, and tracking purposes. The information contained on the manifests was the primary source of information on those VOC/solvents shipped from Semiconductor for recycle or disposal off-site. Quantities of chemicals leaving the facility in bulk shipment were recorded in gallons based on visual inspection of the tankers before and after they had been filled. Quantities of chemicals leaving the facility in drums were based on an accurate drum count and the assumption that each drum contained 55 gallons of material.

Attachment 1 contains a list of all waste shipments made from Semiconductor during calendar year 1988. All waste shipments with the following EPA ID's were included in the calculations:

D001, F001, F002, F003, F004, F005

Waste chemicals with the previous RCRA ID numbers, as a rule, will meet the Florida DER definition of VOCs. There were a number of lab pack shipments which may have met this definition but were not included in the calculation. The total volume of these materials was well under 100 gallons and would have had little impact on the outcome of the material balance.

Once the above information was compiled, the waste streams with the appropriate RCRA ID were selected from the waste profile list and compared with the shipping records. Table I was then prepared in order to calculate the quantity of solvents shipped off site. Total pounds shipped were then calculated from the gallons on the shipping records and information from the waste analysis database. If no specific gravity data was available, then a gravity of 0.9 was assumed. The following is an example of the calculation steps which were followed:

1988 shipments for Stream H005 - 22,300 gallons.

$22,300 \text{ gal} \times 8.34 \text{ lbs/gal} \times 0.797 \text{ (sg)} = 148,228 \text{ lbs.}$

H005 contains a minimum of 33 % acetone. From the waste analysis database.

$148,228 \text{ lbs} \times 0.33 = 48,915 \text{ lbs acetone min.}$

This procedure was then repeated for each component on every waste profile. Like components were then added together to obtain the total quantities

for each compound.

Once the total pounds of each waste was calculated, this information was used to calculate the quantity of the individual components present in the waste stream. The average amount was used throughout the report for comparison, because it is believed that it most accurately indicates the quantity of VOC/solvents which were shipped from Semiconductor for disposal or recycle.

WASTE WATER DISCHARGE:

Harris Semiconductor discharges it's treated Industrial Waste Water in accordance with its Underground Injection Control Permit Number UC05-1265191. The industrial water treatment plant collects and treats all industrial water from the semiconductor manufacturing facility. All manufacturing and process support equipment discharges to the treatment plant and ultimately to the industrial deep well. There are no discharges to surface water or to POTWs from the facility. The only water discharged to the local POTW is water from the sanitary facility and cafeterias.

Attachment 2 contains flow and monitoring data from the treatment plant from the period of January 1, 1988 through December 31, 1988. During this time period the facility treated approximately 345 million gallons of water. Between January and December of 1988, Semiconductor monitored the waste water treatment plant to quantify potential VOC emissions. During this period, the samples were collected on a monthly basis and analyzed using EPA Methods 624 and 625 for priority pollutants and an additional selection of other compounds. Specifically, methanol, acetone, and IPA were also evaluated. Table II contains all of the parameters which had at least one positive response during the study. The average observed concentration was then utilized with the volume of water discharged to calculate the quantity of solvents which were discharged during the course of the year.

Table III lists the parameters which were included. The average flows during the month were used to calculate the quantity of solvents which were discharged during the respective months. These monthly volumes were then totaled to obtain the annual quantity discharged. The following is an example of the calculations which were utilized:

$$\begin{aligned} \text{Average concentration of Acetone} &= 1700 \text{ ppb} \\ &= 1.7 \text{ ppm} \end{aligned}$$

$$1.7 \text{ ppb} \times 8.34 \text{ lbs / gal} \times 29.36 \text{ Mil Gal (Dec)} = 416.07 \text{ lbs}$$

The above calculation was then repeated for each month of 1988. The monthly totals were then added. This same procedure was repeated for each parameter.

The information obtained indicated that during 1988 approximately 68,660 pounds of solvents were discharged in the industrial waste water. It should be noted that the trihalomethanes which were listed on table II, were present in the incoming water from the local drinking water utility.

These materials are not used in the manufacturing areas. Therefore, the loading of these compounds was not included in the 68,660 pounds which were calculated.

AIR EMISSIONS:

Between December 1987 and December 1988, Harris Semiconductor performed extensive monitoring of its point source discharges. Twenty one (21) different discharge points were monitored for solvents.

All of the monitoring was performed by Air Consulting Engineers of Gainesville. The methodology employed was EPA Method 25A utilizing Flame Ionization Detection. This method was selected because it was anticipated that due to the nature of the semiconductor manufacturing methods, there would be very noticeable changes in the quantity of VOC emissions during the course of a normal shift.

Attachment 3 contains a list of the buildings with emission sources that were monitored during the course of the year along with the projected quantity of emissions which were calculated for each building. The emissions numbers were calculated based on a maximum potential production schedule of 8,760 hours per year. Based on the monitoring which was performed, it was determined that the total emissions from the facility were approximately 228,960 pounds. Copies of the monitoring reports were submitted to the Department in 1988.

CHEMICAL INVENTORY:

During the months of December 1987 and December 1988, Harris Semiconductor conducted a detailed physical inventory of all chemicals currently in use at the facility.

This information has become the beginning and ending inventories for all process and process support chemicals used at the Palm Bay facility. These inventories were a joint project between Harris personnel in the Environmental, Health and Safety, and Quality Control Departments.

This survey became the basis for Semiconductors Master Chemical Inventory Data Base. This Data Base contains at the present time in excess of 2500 "chemicals". This does not mean that 2500 compounds are currently in use at the facility. Instead, it means that 2500 chemical names must be managed. This problem is caused by the use of trade name chemicals. More than one half of the chemicals used at Semiconductor are Trade Name Chemicals. The chemicals are generally a mixture of several components. This results in a compounding effect when the information is entered into a data management system. For example, Harris may use 10 trade name chemicals which all have the same four components in varying concentrations. This will result not in the management of four or ten chemicals but fourteen different chemicals.

Once all the chemicals had been identified the project of determining the quantity of each used during 1987 was first undertaken. The first attempt

at this project was to utilize receiving records from the Shipping and Receiving Department. After overcoming several computer problems encountered retrieving the data, it was confirmed that only those chemicals entering the facility on the COM Stock system were included in the data base which was being recovered. This required utilization of an alternate data base to accomplish the objective. The Purchase Order Data Base was utilized to obtain the required information.

All information on materials from known chemical vendors and materials containing an appropriate chemical commodity code were recovered for the period of January 1, 1988 through December 31, 1988. Once this information had been obtained the "chemicals" had to be converted to appropriate units of measurement. The chemical records contain various units of measurement (i.e. gallons, pints, cubic feet, pounds, kilograms, drums, cases, etc.). These had to be converted to a common unit of measurement.

After recovery and conversion of the data described above, the most complicated part of the project had to be undertaken. This was the conversion of the trade name chemicals into their appropriate components. This was accomplished by loading the purchase records into the Chemical Inventory Data Base which lists the components for all chemicals and their known or estimated concentration. This part of the project was complicated by the fact that the material description from the purchasing records was not always exactly the same as the description in the chemical data base. This resulted in the need for a great deal of manual confirmation and data entry in order to load the purchased amounts into the computer data base system. This part of the program could be significantly improved if a unique code could be included on the purchase orders and matched to an exact code in the chemical data base system.

Once the above work had been accomplished, the information presented on Tables IV and V was tabulated. Once this information had been compiled, the raw data was reviewed and a determination was made as to whether or not the material was a solvent. Those chemicals which were determined to be solvents were assigned a code of "S". The data base was then sorted and totaled for all compounds which were identified as solvents. The chemicals listed on Table IV totaled 277,372 pounds of solvents received at the facility. The chemicals listed on Table V totaled 679,415 pounds of solvents received at the facility. This resulted in a total of approximately 957,000 pounds of solvents being received by Semiconductor during 1987. As a point of information, two tables are presented in this section because the chemicals on Table V were being reported in the facility's July 1, 1988 Title III SARA report. It was therefore easier to list these tables separately than to combine the data.

The accuracy of this information is primarily limited by the accuracy of the component concentration available from the vendors on trade name chemicals. As the accuracy of this information improves, the accuracy of the chemical data base should also improve.

It was assumed during the course of this material balance that no net increase or decrease in the physical on site inventory took place during the course of the year. In other words it was assumed that the volume of chemicals received were used. Harris Semiconductor has expended significant amounts of

time and energy in recent years in programs, such as JIT, to control inventories of materials. Just in Time (JIT) is the principle of delivering the material to the facility and work area just prior to the time that it is needed. This eliminates the need for large inventories of materials in the work place.

CONCLUSIONS AND RECOMMENDATIONS:

This report has been prepared and submitted to the Department of Environmental Regulations in accordance with Harris' previous agreements with the Department. The report has been prepared with the most accurate information available. Harris believes that the information accurately represents the VOC/solvents which were used and their ultimate disposition.

Harris believes that the air emissions data and the waste water discharge data is the most accurate data available. This information is based on actual monitoring data. Only a very limited number of required assumptions were employed. Harris intends to continue with its in house monitoring programs in these two areas. Very few modifications to the procedures are anticipated. Based on prior monitoring and other technical information, Harris is confident that the most accurate method of quantifying the facilities actual emissions is through a technically sound monitoring program.

The hazardous waste data is accurate within the range of assumptions that were made. If any errors have been made in the evaluation of the data, it has been on the conservative side. In other words, if any inaccuracies exist they have been on the side of underestimating the quantities of VOC/solvents which were sent off-site for disposal or recycling. Harris has plans to improve the accuracy in this area by more frequent analysis of drummed waste and the development of a computer data base system for the waste profile analysis.

The chemical data to the best of our knowledge is as accurate as is possible. The areas where we would like to see the most improvement, are the quality of the information on trade name chemicals and our ability to more easily retrieve the data from our internal information systems. Harris environmental, purchasing, accounting, safety, and MIS personnel will be meeting in the near future in an effort to reduce the problems we have encountered in the retrieval of the data. A far more difficult problem is the issue of trade name chemicals. As was indicated in the report, this will improve slightly when the vendors are required to provide information on concentrations for chemicals on the SARA list. This problem will undoubtedly will be an issue for many years.

HARRIS SEMICONDUCTOR
CALENDAR YEAR 1988
VOC - MATERIAL BALANCE
ATTACHMENT 1
WASTE SHIPMENTS OFFSITE

SOLVENTS SHIPPED OFF-SITE FOR DISPOSAL/RECYCLE IN 1988

COMPONENT (LBS)	WASTE NO.	H005	H006	H010	H011	H012	H013	H016	H025	H026	H029	H039	H040	H043	H045	H054	H055	H058	TOTAL	
ACETONE		48915	2705	3651	23613				88	7859					174				87005	
METHANOL		31335		1814					9	3144									36302	
ISOPROPANOL		18979							1210	9583	696								30468	
N-BUTYL ACETATE		5565		1977						896					40		11020		19498	
CELLOSOLVE ACETATE		3934		47300	3136				161	23052				213	454		3488		81738	
XYLENE		2128		19768	2831					28330				193	40				53290	
FREON 113		4597						18609		9050									32256	
1,1,1 TRICHLOROETHANE		251				32814										204			33269	
ETHANOL		1183								3616			36						4835	
MISC. NON-HALOGENATED SOLVENTS		9768			12024					52					207				22051	
MISC. SOLVENTS		5201	41656	5047	99381				935	546	1564	13457	5621	2679	477	28		23220	3679	203491
TOTAL		131856	44361	79557	140985	32814	18609		935	2066	87094	14153	5621	2715	1264	562	204	37728	3679	604203

SOLVENTS SHIPPED OFF-SITE FOR DISPOSAL/RECYCLE IN 1988

PNO	WASTENAME	COMPONENT	DENSITY	AMOUNT	UNITS	PERCENT	POUNDS
H005	MIXED SOLVENTS	1,1,1 TRICHLOROETHANE	1.349	22300	G	0.1	251
		ACETONE	0.797	22300	G	33	48915
		CELLOSOLVE ACETATE	0.975	22300	G	0.2	363
		ARCOSOLVE ACETATE	0.96	22300	G	2	3571
		ETHANOL	1.59	22300	G	0.4	1183
		FREON 113	1.545	22300	G	1.6	4597
		ISOPROPANOL	0.785	22300	G	13	18979
		METHANOL	0.791	22300	G	21.3	31335
		MISC. NON-HALOGENATED SOLVENTS	0.947	22300	G	0.9	1585
		MISC. SOLVENTS	1.18	22300	G	2	4389
		N-BUTYL ACETATE	0.88	22300	G	3.4	5565
		TOLUENE	0.866	22300	G	5	8183
		TRICHLOROETHYLENE	1.456	22300	G	0.3	812
		XYLENE	0.88	22300	G	1.3	2128
		H006	DEVELOPER	ACETONE	0.797	40700	G
MISC. SOLVENTS	1.18			40700	G	10.4	41656
H010	PHOTORESIST	ACETONE	0.797	8745	G	5	2906
		ACETONE		14890	P	5	745
		CELLOSOLVE ACETATE	0.975	8745	G	55	39110
		CELLOSOLVE ACETATE		14890	P	55	8190
		METHANOL	0.791	8745	G	2.5	1442
		METHANOL		14890	P	2.5	372
		MISC. SOLVENTS	1.18	8745	G	5	4303
		MISC. SOLVENTS		14890	P	5	745
		N-BUTYL ACETATE	0.88	8745	G	2.5	1605
		N-BUTYL ACETATE		14890	P	2.5	372
		XYLENE	0.88	8745	G	25	16046
		XYLENE		14890	P	25	3723
H011	MICROSTRIP	ACETONE	0.797	20300	G	17.5	23613
		CELLOSOLVE ACETATE	0.975	20300	G	1.9	3136
		CRESOL	1	20300	G	11.5	19470
		MISC. NON-HALOGENATED SOLVENTS	0.947	20300	G	7.5	12025
		MISC. SOLVENTS	1.18	20300	G	40	79911
		XYLENE	0.88	20300	G	1.9	2831
H012	1,1,1 TRICHLOROETHANE	1,1,1 TRICHLOROETHANE	1.349	2585	G	99.5	28038
		1,1,1 TRICHLOROETHANE		4800	P	99.5	4776
H013	FREON	FREON 113	1.545	1155	G	0.995	14808
		FREON 113		3820	P	0.995	3801
H016	WATER W/ ETHYLENE GL	ALIPHATIC HYDROCARBONS	0.85	220	G	7.5	117
		ETHYLENE GLYCOL	1.115	220	G	40	818
H025	WATER CONTAM W/ SOLVENTS	ACETONE	0.797	1320	G	1	88

SOLVENTS SHIPPED OFF-SITE FOR DISPOSAL/RECYCLE IN 1988

		CELLOSOLVE ACETATE	0.975	1320 G	1.5	161
		ISOPROPANOL	0.785	1320 G	14	1210
		METHANOL	0.791	1320 G	0.1	9
		MISC. NON-HALOGENATED SOLVENTS	0.947	1320 G	0.5	52
		MISC. SOLVENTS	1.18	1320 G	4.2	546
H026	MIXED SOLVENTS	ACETONE	0.797	6710 G	14.4	6423
		ACETONE		660 G	14.4	632
		ACETONE		5585 P	14.4	804
		ARCOSOLVE ACETATE	0.96	6710 G	1	537
		ARCOSOLVE ACETATE		660 G	1	53
		AECOSOLVE ACETATE		5585 P	1	56
		CELLOSOLVE ACETATE	0.975	6710 G	34.2	18660
		CELLOSOLVE ACETATE		660 G	34.2	1836
		CELLOSOLVE ACETATE		5585 P	34.2	1911
		ETHANOL	1.59	6710 G	3.5	3114
		ETHANOL		660 G	3.5	307
		ETHANOL		5585 P	3.5	195
		FREON 113	1.545	6710 G	9	7781
		FREON 113		660 G	9	766
		FREON 113		5585 P	9	503
		ISOPROPANOL	0.785	6710 G	17.8	7819
		ISOPROPANOL		660 G	17.8	770
		ISOPROPANOL		5585 P	17.8	994
		METHANOL	0.791	6710 G	5.8	2567
		METHANOL		660 G	5.8	253
		METHANOL		5585 P	5.8	324
		MISC. SOLVENTS	1.18	6710 G	2	1321
		MISC. SOLVENTS		660 G	2	131
		MISC. SOLVENTS		5585 P	2	112
		N-BUTYL ACETATE	0.88	6710 G	1.5	739
		N-BUTYL ACETATE		660 G	1.5	73
		N-BUTYL ACETATE		5585 P	1.5	84
		XYLENE	0.88	6710 G	47.5	23392
		XYLENE		660 G	47.5	2302
		XYLENE		5585 P	47.5	2636
H029	SHIPLEY S-140	DIMETHYL SULFOXIDE	1.1	2020 G	70	12967
		DIMETHYL SULFOXIDE		700 P	70	490
		ISOPROPANOL	0.785	2020 G	5	661
		ISOPROPANOL		700 P	5	35
H039	1165 STRIPPER	METHYL-2-PYRROLIDONE	1.027	825 G	73.8	5215
		MISC. SOLVENTS	1.18	825 G	5	406
H040	MARKEM XXX	ETHANOL	1.59	275 G	1	36
		MISC. SOLVENTS	1.18	275 G	99	2679
H043	WATER W/ MICROSTRIP	ACETONE	0.797	2915 G	0.9	174
		CELLOSOLVE ACETATE	0.975	2915 G	0.9	213
		CRESOL	1	2915 G	0.9	218

SOLVENTS SHIPPED OFF-SITE FOR DISPOSAL/RECYCLE IN 1988

		MISC. NON-HALOGENATED SOLVENTS	0.947	2915 6	0.9	207
		MISC. SOLVENTS	1.18	2915 6	0.9	258
		XYLENE	0.88	2915 6	0.9	193
H045	RESIST BAGS	CELLOSOLVE ACETATE	0.975	90 6	62	454
		HEXAMETHYLDISILAZANE	0.77	90 6	4.9	28
		N-BUTYL ACETATE	0.88	90 6	6	40
		XYLENE	0.88	90 6	6	40
H054	WASTE OIL	1,1,1 TRICHLOROETHANE	1.349	1815 6	1	204
H055	NEGATIVE DEVELOPER	CELLOSOLVE ACETATE	0.975	4290 6	10	3488
		MISC. SOLVENTS	1.18	4290 6	55	23220
		N-BUTYL ACETATE	0.88	4290 6	35	11020
H058	AZ-300	1,2-PROPYLENE GLYCOL	1.03	715 6	30	1842
		METHYL-2-PYROLIDONE	1.027	715 6	30	1837

HARRIS SEMICONDUCTOR

CALENDAR YEAR 1988

VOC - MATERIAL BALANCE

ATTACHMENT 2

INDUSTRIAL WASTEWATER DISCHARGE

**HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)**

<u>DATE</u>	<u>TOTAL WELL # 1</u>	<u>TOTAL WELL # 2</u>	<u>TOTAL # 1 & # 2</u>	<u>TOTAL WWTP</u>	<u>TOTAL 60V. SYS.</u>
01-Jan-88	924000	0	892100	1196700	0
02-Jan-88	832800	0	812400	967900	0
03-Jan-88	829300	0	804500	942000	200
04-Jan-88	1083000	0	1062000	1222900	700
05-Jan-88	1095900	0	1072500	1192100	1100
06-Jan-88	1097000	0	1071200	1251100	5000
07-Jan-88	1069500	0	1044500	1226700	4500
08-Jan-88	1021100	0	993900	1193300	6000
09-Jan-88	1021100	0	993900	1193300	2500
10-Jan-88	1113800	0	1083600	1232800	0
11-Jan-88	866100	0	844300	943800	3300
12-Jan-88	1115700	0	1090900	1204000	7100
13-Jan-88	1111600	0	1088000	1187800	4700
14-Jan-88	1067000	0	1041900	1178300	3100
15-Jan-88	1075800	0	1050200	1190300	5400
16-Jan-88	1050500	0	1026300	1180000	4200
17-Jan-88	964900	0	937500	1111000	0
18-Jan-88	857800	0	829600	992700	500
19-Jan-88	1096300	83800	1155900	1308100	13200
20-Jan-88	1025600	0	998500	1174100	1500
21-Jan-88	1049300	0	1021800	1165600	8100
22-Jan-88	1106800	0	1081100	1209400	7900
23-Jan-88	1008000	0	979800	1112800	1800
24-Jan-88	914500	0	884800	1110800	0
25-Jan-88	1067900	0	1041800	1279900	7000
26-Jan-88	1130100	0	1103700	1361300	4900
27-Jan-88	1059800	0	1032800	1201600	0
28-Jan-88	1170100	0	1144400	1263500	12000
29-Jan-88	1073400	0	1046400	1187300	3600
30-Jan-88	1036300	0	1009600	1200200	4000
31-Jan-88	918200	0	888600	1057000	0
== Sum ==	31853200	83800	31128500	36238300	112300
== Average ==	1027522.58	2703.22581	1004145.16	1168977.42	3622.58065
== Min ==	829300	0	804500	942000	0
== Max ==	1170100	83800	1155900	1361300	13200

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL # 1	TOTAL WELL # 2	TOTAL # 1 & # 2	TOTAL WWTP	TOTAL GOV. SYS.
01-Feb-88	945700	0	915300	1089200	1600
02-Feb-88	1086300	2800	1061000	1226100	13400
03-Feb-88	1018600	0	991400	1147100	5600
04-Feb-88	1111000	700	1085400	1249000	11000
05-Feb-88	1057900	0	1029900	1213100	6900
06-Feb-88	993200	0	965300	1112800	3200
07-Feb-88	979900	0	950600	1115900	0
08-Feb-88	861100	0	835600	992100	3300
09-Feb-88	1112500	0	1085400	1253500	5300
10-Feb-88	1059400	0	1032500	1203600	2800
11-Feb-88	1095900	0	1066200	1243400	6200
12-Feb-88	1120300	0	1092100	1258400	7300
13-Feb-88	1000300	0	973200	1128000	3200
14-Feb-88	942000	0	915800	1022400	0
15-Feb-88	975000	0	946900	1078800	4900
16-Feb-88	1057900	0	1032300	1208400	9000
17-Feb-88	941500	0	917400	1088100	3300
18-Feb-88	963200	0	936800	1107300	4700
19-Feb-88	975100	0	945700	1143000	5400
20-Feb-88	941766	0	921566	1112066	3200
21-Feb-88	941766	0	921566	1112066	3200
22-Feb-88	941766	0	921566	1112066	3200
23-Feb-88	988300	0	969600	1150700	7200
24-Feb-88	1054300	0	1034100	1225700	2400
25-Feb-88	935500	0	916500	1073900	8000
26-Feb-88	993400	0	975900	1149400	4500
27-Feb-88	975400	0	958100	1110400	6000
28-Feb-88	880350	0	865500	1026750	0
01-Mar-88	880350	0	865500	1026750	2300
== Sum ==	28829698	3500	28128698	32979998	137100
== Average ==	994127.517	120.689655	969955.103	1137241.31	4727.58621
== Min ==	861100	0	835600	992100	0
== Max ==	1120300	2800	1092100	1258400	13400

**HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)**

<u>DATE</u>	<u>TOTAL WELL # 1</u>	<u>TOTAL WELL # 2</u>	<u>TOTAL # 1 & # 2</u>	<u>TOTAL WWTP</u>	<u>TOTAL 60V. SYS.</u>
01-Mar-88	956500	0	939000	1103500	5900
02-Mar-88	1108300	0	1090400	1286100	3100
03-Mar-88	932900	0	1016300	1069000	13200
04-Mar-88	1027400	0	909000	1214500	5200
05-Mar-88	890800	0	869800	1075800	5600
06-Mar-88	953200	0	930500	1095400	1300
07-Mar-88	834600	0	943100	963800	3700
08-Mar-88	965800	0	1043100	1123400	5100
09-Mar-88	992000	0	1073500	1170000	1100
10-Mar-88	1036700	0	1016400	1208300	10900
11-Mar-88	1033000	0	1015000	1201500	3700
12-Mar-88	1043500	0	1024400	1201000	8900
13-Mar-88	775800	0	755000	953300	0
14-Mar-88	946800	0	927100	1094900	8800
15-Mar-88	994800	0	974900	1161400	8800
16-Mar-88	956400	0	937500	1115500	3500
17-Mar-88	992800	0	974900	1149500	8300
18-Mar-88	927100	0	969800	1084900	4800
19-Mar-88	952700	0	872900	1094500	9800
20-Mar-88	773400	0	753100	910900	0
21-Mar-88	745600	0	724000	864900	1400
22-Mar-88	967400	0	948700	1119800	1700
23-Mar-88	973000	0	953500	1099100	12400
24-Mar-88	943200	0	924000	1106100	7900
25-Mar-88	966600	0	946700	1139600	11100
26-Mar-88	827200	0	806000	1003200	5400
27-Mar-88	843000	0	819300	1027200	0
28-Mar-88	731100	0	711400	869900	5400
29-Mar-88	914700	0	894300	1084000	13400
30-Mar-88	891000	0	891000	1100200	3900
31-Mar-88	990000	0	990000	1165400	14700
== Sum ==	28887300	0	28644600	33856600	189000
== Average ==	931848.387	0	924019.355	1092148.39	6096.77419
== Min ==	731100	0	711400	864900	0
== Max ==	1108300	0	1090400	1286100	14700

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL # 1	TOTAL WELL # 2	TOTAL # 1 & # 2	TOTAL WWTP	TOTAL GOV. SYS.
01-Apr-88	913400	0	913400	1097600	10800
02-Apr-88	891700	0	891700	1041300	9000
03-Apr-88	850500	0	850500	1048800	0
04-Apr-88	802000	0	802000	958900	8300
05-Apr-88	820900	0	820900	1015400	10000
06-Apr-88	878100	0	878100	1068500	4300
07-Apr-88	840300	0	840300	1016500	9900
08-Apr-88	916000	0	916000	1089300	7600
09-Apr-88	972800	0	972800	1159100	3400
10-Apr-88	923500	0	923500	1129400	0
11-Apr-88	668700	0	668700	790200	5200
12-Apr-88	1049700	0	1049700	1223900	8700
13-Apr-88	1015600	0	1015600	1173400	4800
14-Apr-88	991400	0	991400	1133600	7700
15-Apr-88	1003500	0	1003500	1169800	5200
16-Apr-88	994500	0	994500	1155400	9100
17-Apr-88	841900	0	841900	1010400	4300
18-Apr-88	841900	0	841900	1010400	4300
19-Apr-88	1006600	0	1006600	1215800	7900
20-Apr-88	996000	0	996000	1215000	6500
21-Apr-88	1000300	0	982200	1188800	9900
22-Apr-88	1022000	0	1002400	1237000	5900
23-Apr-88	950400	0	931100	1160000	5800
24-Apr-88	926400	0	901300	1191100	0
25-Apr-88	778600	0	758900	998000	7100
26-Apr-88	998900	27800	1005200	1237900	9500
27-Apr-88	967000	0	1022300	1241000	5300
28-Apr-88	983500	0	1004500	1218300	10400
29-Apr-88	1026700	0	1048500	1274100	5200
30-Apr-88	936500	0	957100	1136100	4800
== Sum ==	27809300	27800	27815000	33605000	190900
== Average ==	926976.667	926.666667	927166.667	1120166.67	6363.33333
== Min ==	668700	0	668700	790200	0
== Max ==	1049700	27800	1049700	1274100	10800

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL # 1	TOTAL WELL # 2	TOTAL # 1 & # 2	TOTAL WWTF	TOTAL GOV. SYS.
01-May-88	882000	0	902000	1093600	100
02-May-88	778400	0	796000	941000	5600
03-May-88	978700	0	999200	1183500	9100
04-May-88	957800	0	977300	1174300	1500
05-May-88	1002300	0	1023900	1203000	14700
06-May-88	941300	0	961400	1146700	7500
07-May-88	978300	0	998500	1176900	3800
08-May-88	897000	0	916700	1101500	0
09-May-88	708000	0	722600	872700	6300
10-May-88	1028900	0	1049900	1223300	13800
11-May-88	1009500	0	1031200	1257500	2900
12-May-88	900200	0	918900	1076100	13200
13-May-88	1539200	0	959200	1166800	9300
14-May-88	204500	0	821600	925100	6300
15-May-88	636600	0	649700	706800	0
16-May-88	731000	0	747000	905900	5500
17-May-88	915100	0	934900	1128800	6800
18-May-88	938300	0	958200	1194400	1200
19-May-88	913300	0	933300	1134300	14700
20-May-88	852400	0	871100	1082500	5600
21-May-88	858600	0	877900	1117800	2300
22-May-88	787600	0	806300	1034600	2500
23-May-88	755400	0	773000	974400	8700
24-May-88	870200	0	889400	1123000	10100
25-May-88	911600	0	931600	1198800	2200
26-May-88	898500	0	917200	1136200	14800
27-May-88	923900	0	943700	1151300	10100
28-May-88	774235	0	791733	1016767	0
29-May-88	774235	0	791733	1016767	0
30-May-88	774235	0	791733	1016767	0
31-May-88	925800	0	945500	1178600	900
== Sum ==	27047105	0	27632399	33659701	179500
== Average ==	872487.258	0	891367.71	1085796.81	5790.32258
== Min ==	204500	0	649700	706800	0
== Max ==	1539200	0	1049900	1257500	14800

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL # 1	TOTAL WELL # 2	TOTAL # 1 & # 2	TOTAL WWTF	TOTAL GOV. SYS.
01-Jun-88	932000	0	931000	1145300	9600
02-Jun-88	930100	0	949700	1183600	12000
03-Jun-88	956200	0	876200	1202400	10600
04-Jun-88	953300	0	1073700	1226600	3600
05-Jun-88	772200	0	789500	1039500	0
06-Jun-88	817300	0	834400	1050900	7000
07-Jun-88	932500	0	952100	1172300	8700
08-Jun-88	964900	0	985000	1230300	2100
09-Jun-88	861600	0	880200	1108100	18500
10-Jun-88	1010800	0	1032000	1255900	7500
11-Jun-88	915700	0	934900	1178800	2100
12-Jun-88	898100	0	917400	1147100	0
13-Jun-88	913000	0	932600	1146500	6000
14-Jun-88	1038000	0	1059800	1280300	12000
15-Jun-88	832200	0	849900	1037900	8200
16-Jun-88	978400	0	998800	1234300	11300
17-Jun-88	936600	0	956900	1174700	7400
18-Jun-88	965900	0	987300	1215900	5200
19-Jun-88	831400	0	849300	1068000	0
20-Jun-88	900400	0	919700	1132500	6900
21-Jun-88	1024400	0	1045700	1243700	10800
22-Jun-88	960500	0	981200	1238100	0
23-Jun-88	1054300	0	1076600	1295800	14500
24-Jun-88	1029700	0	1051300	1301600	12600
25-Jun-88	980800	0	1001500	1274300	2900
26-Jun-88	945800	0	966600	1209600	0
27-Jun-88	892200	0	911100	1144800	7900
28-Jun-88	1014100	0	1035700	1263900	9400
29-Jun-88	955100	0	975700	1281900	0
30-Jun-88	1039900	0	1062000	1285800	15700
== Sum ==	28237400	0	28837800	35770400	212500
== Average ==	941246.667	0	961260	1192346.67	7083.3333
== Min ==	772200	0	789500	1037900	0
== Max ==	1054300	0	1076600	1301600	18500

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL # 1	TOTAL WELL # 2	TOTAL # 1 & # 2	TOTAL WWTF	TOTAL GOV. SYS.
01-Jul-88	969400	0	969400	1258400	4600
02-Jul-88	1048300	0	1048300	1298800	6000
03-Jul-88	569000	0	569000	769300	0
04-Jul-88	457600	0	457600	670600	0
05-Jul-88	778000	0	778000	1004900	7200
06-Jul-88	980700	0	980700	1191700	2700
07-Jul-88	1071300	0	1071300	1285600	10600
08-Jul-88	981300	0	981300	1217200	6700
09-Jul-88	1023600	0	1023600	1275200	4800
10-Jul-88	838000	0	838000	1071200	0
11-Jul-88	862500	0	862500	1060300	5300
12-Jul-88	1061500	0	1061500	1337000	10700
13-Jul-88	1066100	0	1066100	1369700	2400
14-Jul-88	1047500	0	1047500	1279000	14300
15-Jul-88	1084500	0	1084500	1337500	6200
16-Jul-88	1168100	0	1168100	1459800	6300
17-Jul-88	743400	0	743400	888900	300
18-Jul-88	805100	0	805100	941700	7200
19-Jul-88	1049000	0	1049000	1288300	16000
20-Jul-88	993800	0	993800	1263200	2700
21-Jul-88	1074800	0	1074800	1274500	13700
22-Jul-88	1044100	0	1044100	1255100	7500
23-Jul-88	1007500	0	1007500	1221900	2000
24-Jul-88	1054400	0	1054400	1302100	200
25-Jul-88	862600	0	862600	1004600	7600
26-Jul-88	1043800	0	1043800	1263800	10100
27-Jul-88	1008100	0	1008100	1254400	0
28-Jul-88	837400	0	837400	1047000	4300
29-Jul-88	1141500	0	1141500	1345300	6900
30-Jul-88	1026100	0	1026100	1377700	4200
31-Jul-88	1026200	0	1026200	1377600	4200
== Sum ==	29725400	0	30352400	36994300	176700
== Average ==	958883.871	0	979109.677	1193364.52	5700
== Min ==	457600	0	467400	670600	0
== Max ==	1168100	0	1193000	1459800	16000

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL # 1	TOTAL WELL # 2	TOTAL # 1 & # 2	TOTAL WWTP	TOTAL GOV. SYS.
01-Aug-88	866500	0	884600	1181500	3200
02-Aug-88	1417300	0	1447800	1843100	15000
03-Aug-88	690600	0	705300	911700	6500
04-Aug-88	1015800	0	1037300	1339300	5500
05-Aug-88	1091000	0	1114200	1343400	22600
06-Aug-88	965300	0	985900	1261400	3000
07-Aug-88	842400	0	861600	1122000	0
08-Aug-88	933300	0	954100	1163600	6400
09-Aug-88	1022300	0	1044400	1270900	8200
10-Aug-88	989400	0	1010800	1269800	4200
11-Aug-88	1103100	0	1126900	1316000	11800
12-Aug-88	1018700	0	1040800	1267600	6700
13-Aug-88	983000	0	1005100	1272900	2500
14-Aug-88	864700	0	884300	1109000	0
15-Aug-88	914900	0	935600	1141300	4200
16-Aug-88	1038300	0	1060600	1257100	9900
17-Aug-88	947700	0	967300	1189300	0
18-Aug-88	1195300	0	1220900	1465800	11300
19-Aug-88	931600	0	950900	1144500	5200
20-Aug-88	1098000	0	1121300	1375500	1200
21-Aug-88	914400	0	933900	1137100	0
22-Aug-88	935700	0	956000	1159700	6100
23-Aug-88	975700	0	996400	1201300	7600
24-Aug-88	107700	783100	899900	1181800	0
25-Aug-88	0	1070900	1080700	1360100	9700
26-Aug-88	0	1045600	1055400	1301400	5100
27-Aug-88	0	883900	891700	1161900	1800
28-Aug-88	0	567500	572700	878100	0
29-Aug-88	0	623700	628300	908600	6400
30-Aug-88	0	765700	772400	1065700	15000
31-Aug-88	0	888400	896800	1221100	9200
== Sum ==	22862700	6628800	30043900	37822500	188300
== Average ==	737506.452	213832.258	969158.065	1220080.65	6074.19355
== Min ==	0	0	572700	878100	0
== Max ==	1417300	1070900	1447800	1843100	22600

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HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTF	TOTAL GOV. SYS.
09/01/88	0	976000	985400	1292800	5800
09/02/88	0	953500	962300	1289100	4000
09/03/88	0	907100	915600	1205000	3400
09/04/88	0	938100	947400	1239700	0
09/05/88	0	691100	697500	936400	0
09/06/88	0	797700	805000	1058900	0
09/07/88	0	967600	978700	1220900	8200
09/08/88	0	912000	920000	1127400	8400
09/09/88	0	1053100	1063500	1341000	5800
09/10/88	0	932100	941200	1200600	2100
09/11/88	0	743300	750300	993300	0
09/12/88	0	604700	609100	869900	0
09/13/88	0	937300	945500	1253800	6700
09/14/88	0	1014500	1023700	1323600	8500
09/15/88	0	1015800	1025100	1297400	6700
09/16/88	0	959300	968400	1272900	7800
09/17/88	0	904400	893400	1206900	6600
09/18/88	0	858800	887800	1153300	0
09/19/88	0	882600	890600	1135600	3400
09/20/88	25600	966700	996400	1243300	7000
09/21/88	0	903800	911500	1213800	0
09/22/88	0	1023300	1033200	1311100	7700
09/23/88	0	952300	961600	1240100	5300
09/24/88	0	800500	807400	1092900	1400
09/25/88	0	616800	623300	893400	0
09/26/88	0	593800	600100	848800	5300
09/27/88	0	1040100	1050900	1325400	6900
09/28/88	0	1000100	1010400	1289900	2000
09/29/88	0	1058000	1068100	1342900	6300
09/30/88	0	949300	958400	1239000	2000

TOTAL	25600	26953700	27230000	35439100	121300
AVERAGE	853	898456	997666	1181303	4043
MINIMUM	0	593800	600100	848800	0
MAXIMUM	25600	1058000	1068100	1342900	8500

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.
11/01/88	40400	959200	1010800	1272100	1600
11/02/88	0	1038500	1049100	1308200	300
11/03/88	0	818500	828000	983900	8100
11/04/88	0	933000	941800	1207900	5000
11/05/88	0	1030200	1041000	1319500	800
11/06/88	0	827400	834800	1071300	0
11/07/88	0	874300	882200	1102400	3600
11/08/88	0	1031400	1042000	1293500	3000
11/09/88	0	1346000	1360200	1677499	0
11/10/88	0	677000	684000	833400	4300
11/11/88	0	1028100	1038100	1294700	7500
11/12/88	0	937000	946600	1189500	1700
11/13/88	0	912300	921500	1162200	0
11/14/88	0	887000	895800	1108800	5300
11/15/88	0	953500	963700	1203600	2100
11/16/88	0	990400	999900	1286700	0
11/17/88	0	1033700	1043700	1298700	10100
11/18/88	0	980600	990000	1277900	2400
11/19/88	0	930300	939500	1230500	1900
11/20/88	0	860500	868700	1126500	0
11/21/88	0	857000	865700	1097500	4800
11/22/88	0	1012500	1023000	1293600	4500
11/23/88	0	1069400	1080700	1318300	8300
11/24/88	0	1116400	1127900	1345600	1300
11/25/88	0	933700	940400	1108600	0
11/26/88	0	504400	508900	602000	0
11/27/88	0	769400	432000	980100	0
11/28/88	0	874200	374800	1113200	3900
11/29/88	0	1013300	809300	1178500	4100
11/30/88	0	1018000	1023000	1269100	2400
TOTAL	40400	28217200	27467100	35555299	87000
AVERAGE	1346	940573	915570	1185176	2900
MINIMUM	0	504400	374800	602000	0
MAXIMUM	40400	1346000	1360200	1677499	10100

HARRIS SEMICONDUCTOR
DEEPWELL INJECTION REPORT
DISCHARGE VOLUMES (GALLONS)

DATE	TOTAL WELL #1	TOTAL WELL #2	TOTAL #1 AND #2	TOTAL FWWTP	TOTAL GOV. SYS.
12/01/88	0	963900	974500	1190100	5600
12/02/88	1025800	11300	1060300	1226600	4700
12/03/88	1014600	0	1038500	1195100	6600
12/04/88	865900	0	1382100	1026000	0
12/05/88	811000	0	334400	987200	0
12/06/88	1084600	0	1108800	1259400	5200
12/07/88	1029200	100	1052300	1195400	3800
12/08/88	997600	0	1020400	1179000	3400
12/09/88	1007600	0	1030500	1210900	2300
12/10/88	964300	0	986300	1177200	5100
12/11/88	891200	0	891200	1125200	0
12/12/88	634600	0	671200	790500	3200
12/13/88	1427900	0	1460400	1633800	5900
12/14/88	1027600	0	1052300	1170500	6100
12/15/88	677600	0	692800	789600	2000
12/16/88	985500	0	1008300	1160400	3600
12/17/88	975700	0	998100	1139700	3700
12/18/88	840100	0	861000	981700	0
12/19/88	1023300	0	1048700	1162400	3300
12/20/88	1072000	0	1098000	1207900	6400
12/21/88	1001400	0	1024600	1190800	0
12/22/88	1027400	0	1051000	1206500	5200
12/23/88	1008300	0	1031400	1212400	6300
12/24/88	881500	0	902500	1100900	200
12/25/88	766200	0	784200	942000	0
12/26/88	799900	0	818600	974500	0
12/27/88	869400	0	889600	1029300	0
12/28/88	883100	200	903500	1060700	200
12/29/88	1000500	0	1021800	1191200	0
12/30/88	373300	0	381800	727300	0
12/31/88	791200	200	808100	961100	0
TOTAL	27758300	975700	29387200	34405300	82800
AVERAGE	895429	31474	947974	1109848	2670
MINIMUM	0	0	334400	727300	0
MAXIMUM	1427900	963900	1460400	1633800	6600

HARRIS SEMICONDUCTOR

CALENDAR YEAR 1988

VOC - MATERIAL BALANCE

ATTACHMENT 3

AIR EMISSIONS

file name: BLDG88.WK1 in permdata dir

EMISSIONS BY BUILDING BASED ON 8760 HOURS A YEAR PRODUCTION

1988 MONITORING RESULTS

HARRIS SEMICONDUCTOR

BUILDING NUMBER	ACID EMISSIONS (TONS/YEAR)	SOLVENT EMISSIONS (TONS/YEAR)
04	1.476	7.231
51	3.732	27.090
54	5.913	67.724
55	0.053	----
57	0.175	1.511
58	0.280	1.121
59	0.188	1.783
60	0.342	0.745
61	0.022	0.039
62	0.250	0.359
63	0.215	6.877
TOTAL	<u>12.646</u>	<u>114.480</u>

HARRIS SEMICONDUCTOR

CALENDAR YEAR 1988

VOC - MATERIAL BALANCE

ATTACHMENT 4

CHEMICAL USAGE

SOVENTS INVENTORIED IN 1987

COMPONENT	CAS #	PURCHASED (LBS)
1,1,1 TRICHLOROETHANE	71-55-6	9475
ACETONE	67-64-1	14692
ISOPROPYL ALCOHOL	67-63-1	5206
METHYL ALCOHOL	67-56-1	5238
ETHYL ALCOHOL	64-17-5	676
CRESOL	1319-77-3	735
HMDS		300
XYLENE	1330-20-7	12178
N-BUTYL ACETATE	123-86-4	1852
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	19536
		69888

5 MONTHS PURCHASED IN 1988

COMPONENT	TRADENAME	PURCHASED (LBS)	
1,1,1 TRICHLOROETHANE	1,1,1 TRICHLOROETHANE TCA BUBBLERS	71513	
ACETONE	ACETONE	317564	
ISOPROPYL ALCOHOL	ISOPROPYL ALCOHOL	55333	
	ETHYL ALCOHOL	318	
	FLUX, ALPHA 100	118	
	FLUX, ALPHA 611	1	
	FLUX, KESTER 135	95	
	THINNER, KESTER 4163	935	
METHYL ALCOHOL	METHYL ALCOHOL	100122	
	ETHYL ALCOHOL	318	
	FREDN TMS	745	
METHYL PROPYL KETONE	METHYL PROPYL KETONE	277	
N-BUTYL ACETATE	N-BUTYL ACETATE	117	
	PHOTORESIST, HOECHST AZ 4620	1	
	PHOTORESIST, HOECHST AZ 4903	1	
	PHOTORESIST, SHIPLEY 1370	13	
	PHOTORESIST, SHIPLEY 1400-27	439	
	PHOTORESIST, SHIPLEY MICROPOSIT S1400	609	
	PHOTORESIST, SHIPLEY MICROPOSIT ECX 1000 SERIES	1	
	PHOTORESIST, SHIPLEY MICROPOSIT S1650	32	
	PHOTORESIST, SHIPLEY S1418 J2	18	
	PHOTORESIST, SHIPLEY THINNER A	206	
	PHOTORESIST, WAYCOAT HPR 204	424	
	PHOTORESIST, WAYCOAT HPR 205	27	
		WASTE SOLVENTS	
	XYLENE	XYLENE	43450
PHOTORESIST, DYNALITH OMR-83 NEGATIVE		17	
PHOTORESIST, HOECHST AZ 4620		1	
PHOTORESIST, HOECHST AZ 4903		1	
PHOTORESIST, SHIPLEY 1370		13	
PHOTORESIST, SHIPLEY 1400-27		439	
PHOTORESIST, SHIPLEY MICROPOSIT S1400		609	
PHOTORESIST, SHIPLEY MICROPOSIT ECX 1000 SERIES		1	
PHOTORESIST, SHIPLEY MICROPOSIT S1650		32	
PHOTORESIST, SHIPLEY S1418 J2		18	
PHOTORESIST, SHIPLEY THINNER A		206	
PHOTORESIST, WAYCOAT HPR 204		169	
PHOTORESIST, WAYCOAT HPR 205		18	

9 MONTHS PURCHASED IN 1988

	PHOTORESIST, WAYCOAT HR 100	2895
	PHOTORESIST, WAYCOAT HR 200	6415
	PHOTORESIST, WAYCOAT NEG VHR 3	1219
	PHOTORESIST, WAYCOAT SC 100	573
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	FREON TF	62784
	FREON TF 35	112
	FREON TMS	6030
	MS 180	55
	MS 190	10
	BLACO-TRON TMS PLUS	5367
CELLOSOLVE ACETATE	HMDS 10%	53479
	PHOTORESIST, HOECHST AZ 4620	1
	PHOTORESIST, HOECHST AZ 4903	11
	PHOTORESIST, SHIPLEY 1370	117
	PHOTORESIST, SHIPLEY 1400-27	4539
	PHOTORESIST, SHIPLEY MICROPOSIT ECX 1000 SERIES	1
	PHOTORESIST, SHIPLEY MICROPOSIT S1650	263
	PHOTORESIST, SHIPLEY S1418 J2	171
	PHOTORESIST, SHIPLEY THINNER A	1878
	PHOTORESIST, WAYCOAT HPR 204	3389
	PHOTORESIST, WAYCOAT HPR 205	265
	CELLOSOLVE ACETATE	135
1,2,4 TRICHLOROBENZENE	STRIPPER, BURMAR 712D	55962
5-METHYL-2-HEXANONE	5-METHYL-2-HEXANONE	2323
AROMATIC PHENOL	STRIPPER, BURMAR 712D	27981
N-METHYL-2-PYRROLIDONE	STRIPPER, HOECHST AZ 300T	2183
	STRIPPER, SHIPLEY 1165	12633
HYDROXY BENZENE	STRIPPER, HUNT MICROSTRIP	14522
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	ARCOSOLVE PM ACETATE	38
	PHOTORESIST, HOECHST AZ 5206	89
	PHOTORESIST, HOECHST AZ 5206-E	54
	PHOTORESIST, HOECHST AZ 5214	283
	STRIPPER, SHIPLEY EBR-10	1203
ETHYL BENZENE	PHOTORESIST, WAYCOAT HPR 204	56
	PHOTORESIST, WAYCOAT HPR 205	4
	PHOTORESIST, WAYCOAT HR 100	724

S  TS PURCHASED IN 1988

	PHOTORESIST, WAYCOAT HR 200	5269
	PHOTORESIST, WAYCOAT NEG VHR 3	305
	PHOTORESIST, WAYCOAT SC 100	126
ETHYL ALCOHOL	BLACO-TRON TMS PLUS	256
	STATICIDE	216
	THINNER, KESTER 4163	792
	ETHYL ALCOHOL	7142
CHLORINATED BENZENE	STRIPPER, HUNT MICROSTRIP	364
CRESOL	STRIPPER, HUNT MICROSTRIP	13277
DIETHANOLAMINE	RUST-LICK 6-1066-D	5301
	CHALLENGE 100	7521
MONOETHANOLAMINE	RUST-LICK 6-1066-D	5301
	CHALLENGE 100	7521
	MARKEM 535	27
TRIETHANOLAMINE	RUST-LICK 6-1066-D	10601
HMDS	HMDS 10X	5942
	HMDS	78493
METHYL TERT-BUTYL ETHER	METHYL TERT-BUTYL ETHER	41
METHYLENE CHLORIDE	FREON TMS 55	132
	MS 190	19
PROPYLENE GLYCOL MONOMETHYL ETHER	PHOTORESIST, SHIPLEY MEGAPOSIT S1713	6
	PHOTORESIST, SHIPLEY SE-8783	1
STODDARD SOLVENT	MINERAL SPIRITS	76
2-METHOXY-1-PROPANOL ACETATE	ARCOSOLVE PM ACETATE	2

ITEMS PURCHASED IN 1988

PARAFINS	STRIPPER, BURMAR 712D	1119
POLYGLYCOL ETHER	STRIPPER, HOECHST AZ 300T	4367
DIACETONE ALCOHOL	PHOTORESIST, SHIPLEY MEGAPOSIT S1713	11
	PHOTORESIST, SHIPLEY SE-8783	1
BUTYL CELLOSOLVE	BUTYL CELLOSOLVE	225
FC 40	FC 40	1389
FC 70	FC 70	77
FC 77	FC 77	950
FC 84	FC 84	2800
FOMBLIN	FOMBLIN	16
HEXAFLUOROETHANE	HEXAFLUOROETHANE	285
TETRAFLUOROMETHANE	TETRAFLUOROMETHANE	910
TRIFLUOROMETHANE	TRIFLUOROMETHANE	630
CHLOROPENTAFLUOROETHANE	CHLOROPENTAFLUOROETHANE	100

1023576

SOLVENTS INVENTORIED IN 1988

COMPONENT	CAS #	TRADENAME	TOTAL (LBS)		
1,1,1 TRICHLOROETHANE	71-55-6	1,1,1 TRICHLOROETHANE	8344.00		
		CON-BOND 1560	21.30		
		DPL, CHEMTRONICS CD 14	0.46		
		DPL, CHEMTRONICS CD 14	1.26		
		MS 136	18.62		
		STRIPPER, BURMAR EK34	0.23		
		TCA BUBBLERS	11.09		
		TCA BUBBLERS	95.04		
		TWINKLE STAINLESS STEEL CLEANER AND POLISH (OIL)	0.20		
		CHLOROTHENE V6	614.66		
		WASTE TRICHLOROETHANE	164.72		
		ACETONE	67-64-1	ACCUGLASS	
				ACETONE	8436.27
WASTE ACETONE	61.92				
WASTE SOLVENTS	10545.74				
ISOPROPYL ALCOHOL	67-63-1	3M DESK CLEANER	3.53		
		ACIDITY KIT INLAND	0.59		
		ACIDITY KIT INLAND	0.50		
		CLEANER, BURMAR GLASS	0.21		
		CLEANER, GLASS	0.33		
		DEVELOPER, TORAY EBR-9 2	0.33		
		ETHYL ALCOHOL	0.07		
		ETHYL ALCOHOL	23.49		
		ETHYL ALCOHOL	35.80		
		FLUX S STRIPPER	0.19		
		FLUX, ALPHA 100	5.84		
		FLUX, ALPHA 250 HF	1.88		
		FLUX, ALPHA 611	11.63		
		FLUX, KESTER #1544 ROSIN	2.85		
		FLUX, KESTER #185 ROSIN	17.43		
		FLUX, KESTER #2331 ORGANIC	2.41		
		FLUX, KESTER 135	77.94		
		FLUX, LONCO ORGANO 15MM43H	412.00		
		FREON TP 35	3.88		
		MOLYDAG 210	1.23		
		RINSE, KTI PBS	148.62		
		STATICIDE	5.61		
		TEXSTAT 100 ANTISTATIC CLEANING PADS	1.56		
		THINNER, KESTER #109	6.00		
		THINNER, KESTER 4163	54.82		
		TRANSENE 100	5.00		
		ISOPROPYL ALCOHOL	5536.74		
		WASTE IPA	84.57		
		METHYL ALCOHOL	67-56-1	METHYL ALCOHOL	5787.96
				ETHYL ALCOHOL	35.80

ITEMS INVENTORIED IN 1988

ETHYL ALCOHOL	23.49
ETHYL ALCOHOL	0.07
SOLDER, ALPHA 110 MASK	0.01
ULTRAMAC SOLVENT BR-22	5.08
ZERO CHARGE ANTI STAT TECH	0.25
WASTE METHANOL	82.57
FREON TMS	326.59
FREON TMS	24.20
WASTE TMS	9.17
WASTE SOLVENTS	7030.49

METHYL PROPYL KETONE	107-87-9 METHYL PROPYL KETONE	20.13
	DEVELOPER, KTI/PBS I	48.98

METHYL ETHYL KETONE	CON-BOND 985	0.10
	METHYL ETHYL KETONE	50.19
	TIOLON A-20	1.30
	TIOLON A-20	31.90
	TIOLON X-20	3.68
	TIOLON A-20 AERSOL	0.51

METHYL ISOBUTYL KETONE	DEVELOPER, TORAY EBR-9 2	1.33
	METHYL ISOBUTYL KETONE	80.06

N-BUTYL ACETATE	123-86-4 N-BUTYL ACETATE	3135.84
	PHOTORESIST, SHIPLEY 1370	13.36
	PHOTORESIST, SHIPLEY 1400-27	23.42
	PHOTORESIST, SHIPLEY THINNER A	0.78
	PHOTORESIST, WAYCOAT HPR 204	16.26
	PHOTORESIST, WAYCOAT HPR 205	6.77
	PHOTORESIST, SHIPLEY S1400-17	0.15
	PHOTORESIST, WAYCOAT MPR	0.61
	BUTYL CELLOSOLVE 4:1	1381.10
	WASTE SOLVENTS	3093.42

XYLENE	1330-20-7XYLENE	2498.82
	PHOTORESIST, SHIPLEY 1370	13.36
	PHOTORESIST, SHIPLEY 1400-27	49.96
	PHOTORESIST, SHIPLEY THINNER A	50.74
	PHOTORESIST, WAYCOAT HPR 204	7.59
	PHOTORESIST, WAYCOAT HPR 205	43.71
	PHOTORESIST, WAYCOAT HR 100	350.46
	PHOTORESIST, WAYCOAT HR 200	690.75
	PHOTORESIST, WAYCOAT NEG VHR 3	25.40
	DOW CORNING HIPEC 3-6550 DISP	0.88
	MOLYDAG 210	0.28
	PHOTORESIST, KTI NEG 747	237.12
	PHOTORESIST, SHIPLEY AZ 1370	0.21
	PHOTORESIST, WAYCOAT HPR 256 P	0.25
	PHOTORESIST, WAYCOAT NEG VHR	77.02
	PRIMER, 1% SILAZANE	1486.19
	RESIN, WAYCOAT 708, 710	0.00
	RESIN, WAYCOAT 710	0.04

SUMS INVENTORIED IN 1988

TOYBEAM CMS-EX	0.02
TOYBEAM CMS-EX (S)	0.03
WASTE SOLVENTS	1406.10

1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	FREON TF	5464.80
		FREON TF	23024.12
		FREON TF 35	38.70
		FREON TF 35	88.11
		BLACO-TRON TMS PLUS	11.14
		BLUE STUFF	0.39
		ELECTRO WASH C160	53.70
		FLUX OFF C1690	38.65
		FLUX OFF C1691	46.31
		FREON TF C2480	4.76
		FREON TMC 55	708.20
		FREON TMC 55	25.30
		FREON TP 35	7.20
		MS 114 CONFORMAL COATING STRIPPER	5.66
		MS 122 FLUOROCARBON RELEASE AGENT	0.53
		MS 122 FLUOROCARBON RELEASE AGENT	0.20
		MS 136	36.75
		MS 160 FREON T-P 35 SOLVENT	2.49
		MS 165 FREON TMS	2.03
		MS 180	30.65
		MS 181 FREON TA SOLVENT & LUBE	2.06
		MS 190	14.60
		MS 200 MAGNETIC TAPE HEAD CLEANER	5.24
		MS 200 MAGNETIC TAPE HEAD CLEANER	1.60
		MS 230 CONTACT RE-NU	15.71
		MS 230 CONTACT RE-NU	1.60
		MS 238 CONTACT RE-NU AND LUBE	2.59
		MS 350	3.13

CELLOSOLVE ACETATE

HMS 10%	3160.03
PHOTORESIST, SHIPLEY 1370	128.44
PHOTORESIST, SHIPLEY 1400-27	516.25
PHOTORESIST, SHIPLEY THINNER A	469.42
PHOTORESIST, WAYCOAT HPR 204	130.10
PHOTORESIST, WAYCOAT HPR 205	67.65
PHOTORESIST, DYNALITH OFPR-800	12.32
PHOTORESIST, KTI POSITIVE 820	1.56
PHOTORESIST, SHIPLEY AZ 1370	2.92
PHOTORESIST, SHIPLEY S1400-17	1.50
PHOTORESIST, SHIPLEY S1400-27	241.99
PHOTORESIST, WAYCOAT HPR 256 P	5.00
PHOTORESIST, WAYCOAT MPR	5.72
WASTE PHOTORESIST	717.50
CELLOSOLVE ACETATE	285.23
WASTE SOLVENTS	703.05

1,2,4 TRICHLOROBENZENE

120-82-1 STRIPPER, BURMAR 7120

3099.48

9 ITEMS INVENTORIED IN 1988

5-METHYL-2-HEXANONE	110-12-3 5-METHYL-2-HEXANONE DEVELOPER, KTI/PBS I RINSE, KTI PBS	1491.00 147.00 99.08
AROMATIC PHENOL	108-95-2 STRIPPER, BURMAR 7120	1549.74
N-METHYL-2-PYRROLIDONE	STRIPPER, HOECHST AZ 300T STRIPPER, HOECHST AZ 300T STRIPPER, SHIPLEY 1165	270.59 21.43 1264.91
HYDROXY BENZENE	108-95-2 STRIPPER, HUNT MICROSTRIP PHOTORESIST, HOECHST AZ 5206 PHOTORESIST, HOECHST AZ 5206-E PHOTORESIST, HOECHST AZ 5210 PHOTORESIST, HOECHST AZ 5214-E	974.22 6.82 75.05 6.53 195.17
ETHYL BENZENE	100-41-4 PHOTORESIST, WAYCOAT HPR 204 PHOTORESIST, WAYCOAT HPR 205 PHOTORESIST, WAYCOAT HNR 999 PHOTORESIST, WAYCOAT HPR 256 P PHOTORESIST, WAYCOAT HR 100 PHOTORESIST, WAYCOAT HR 200 PHOTORESIST, WAYCOAT NEG VHR PHOTORESIST, WAYCOAT NEG VHR PHOTORESIST, WAYCOAT SC 100	1.08 0.56 0.08 0.04 87.61 562.47 13.53 9.92 16.46
ETHYL ALCOHOL	64-17-5 BLACO-TRON TMS PLUS THINNER, KESTER 4163 ETHYL ALCOHOL ETHYL ALCOHOL ETHYL ALCOHOL FLUX, KENCO #192 AQUA-SOL FLUX, KENCO 934-SA FREDON TF 35 FREDON TF 35 MARKEM 452 MARKEM 501	0.49 8.70 715.91 469.71 1.25 75.06 13.76 96.31 42.30 0.17 3.38
CHLORINATED BENZENE	STRIPPER, HUNT MICROSTRIP	1530.91
CRESOL	1319-77-3 STRIPPER, HUNT MICROSTRIP	835.04
DIETHANOLAMINE	109-89-7 RUST-LICK 6-1066-D CHALLENGE 100	785.29 1541.23

SOLVENTS INVENTORIED IN 1988

MONOETHANOLAMINE

RUST-LICK 6-1066-D 785.29
 CHALLENGE 100 1541.23
 MARKEM 535

TRIETHANOLAMINE

RUST-LICK 6-1066-D 1570.59

HMDS

HMDS 10% 351.00
 HMDS 219.38
 HMDS BTL 2.00

METHYLENE CHLORIDE

MS 190 29.19
 FLUX OFF C1690 38.65
 FREON TMC 55 831.36
 FREON TMC 55 29.70
 STRIPPER, COLD 359 3.68

STODDARD SOLVENT

MINERAL SPIRITS 114.09

FC 40

FC 40 650.40

FC 70

FC 70 125.00

FC 43

FC 43 8

FC 431

FC 431 8

FC 432

FC 432 8

FC 75

FC 75 78.06

FC 77

FC 77 119.06

FC 84

FC 84 627

FOMBLIN

FOMBLIN 35.2

WASTE FOMBLIN

WASTE FOMBLIN 83.4

WASTE FREON

WASTE FREON 577.962

122858.49

P 938 762 645

RECEIPT FOR CERTIFIED MAIL

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

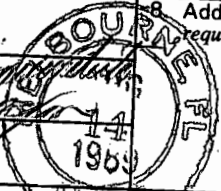
Sent to	
Mr. L. R. Hutker, P.E., Harris Semiconductor	
Street and No. P.O. Box 883	
P.O. State and ZIP Code Melbourne, FL 32901	
Postage	S
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	S
Postmark or Date Mailed: 8-11-89	

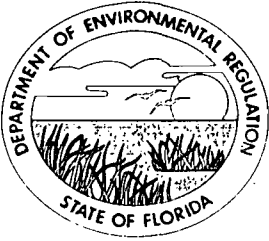
PS Form 3800, June 1985

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. (Extra charge)
2. Restricted Delivery (Extra charge)

<p>3. Article Addressed to:</p> <p>Mr. L. R. Hutker, P.E. Director, Facilities Department Harris Semiconductor P. O. Box 883 Melbourne, FL 32901</p>	<p>4. Article Number</p> <p>P 938 762 645</p> <p>Type of Service:</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise</p> <p>Always obtain signature of addressee or agent and DATE DELIVERED.</p>
<p>5. Signature - Address</p> <p>X</p>	<p>6. Addressee's Address (ONLY if requested and fee paid)</p>
<p>6. Signature - Agent</p> <p>X</p>	
<p>7. Date of Delivery</p>	





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 9, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

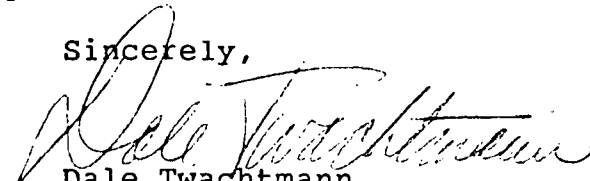
Dear Mr. Hutker:

Re: Request to Use EPA Reference Method 25A, 40 CFR 60

The Department received Ms. Nancy Baldisserotto's letter dated August 2, 1989, requesting to use EPA Reference Method 25A instead of EPA Reference Method 25, 40 CFR 60, Appendix A, for compliance verification. Since the potential VOC/solvent emissions from each emission point are very low and the referenced testing method was adopted through the corrective amendment procedure and became effective on July 10, 1989, the request is acceptable.

Therefore, this letter shall be attached to each affected permit and shall become a part of the permit.

Sincerely,



Dale Twachtmann
Secretary

DT/kt

attachment

cc; J. Brown, CAMs
C. Collins, Central District
N. Baldisserotto, HS



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Dale Twachtmann

for FROM: Steve Smallwood 

DATE: August 9, 1989

SUBJ: Approval of an Amendment to Allow the Use of EPA Reference Method 25A, 40 CFR 60, Appendix A
Harris Semiconductor

RECEIVED

AUG 10 1989

Office of the Secretary

Attached for your approval and signature is an amendment prepared by Central Air Permitting to affect all VOC/solvent related construction permits that currently require the use of EPA Reference Method 25, 40 CFR 60, Appendix A, for compliance verification. The amendment will allow the use of EPA Reference Method 25A, 40 CFR 60, Appendix A, for compliance verification.

There is no controversy associated with this action.

I recommend your approval and signature.

SS/BM/t

attachment



December 8, 1989

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

Subject: Extension of Consolidated Construction Permits
Harris Semiconductor, Melbourne

<u>Permit Nos.</u>	<u>Bldg.</u>
AC 05-147321	54
AC 05-150794	59
AC 05-157786	51
AC 05-157787	62
AC 05-158237	63
AC 05-159484	58
AC 05-161706	57
AC 05-164544	55
AC 05-165757	4
AC 05-168460	60

Dear Mr. Fancy:

In accordance with F.A.C. rule 17-4.09 and Specific Condition No. 13 of the above mentioned air permits, the purpose of this letter is to request an extension of the expiration date until June 30th, 1990. This date will grant our facility adequate time to complete the solvent material balance scheme for each building (as required by specific condition #6.)

Operating permit applications will be submitted by March 31st, along with the annual operating report and mass balance information for 1989.

Please feel free to phone me at (407) 729-4061 if you have any questions.

Sincerely,

Nancy Baldisserotto
Environmental Services

cc: T. Sawicki
B. Mitchell

\extdbldg.prm

PM
8-4-89
Melbourne, FL

File Copy
General File



RECEIVED
AUG 7 1989
DER-BAQM

August 4, 1989

Pius K. Sanabani
Engineer
Central Florida District
State of Florida
Department of Environmental Regulation
3319 Maguire Blvd, Suite 232
Orlando, FL 32803-3767

SUBJECT: Acid/solvent Monitoring; Harris Semiconductor
Scrubber Systems -- August 7-25, 1989

Dear Mr. Sanabani,

The following FDER permit numbers correspond with the sources scheduled to be monitored this month:

<u>BLDG</u>	<u>PERMIT NO.</u>	<u>SOURCE(S)</u>
4	AC 05-104524	F04S03
	AC 05-104525	F04S01
	AO 05-109850	F04S04
	AO 05-109852	F04S08
	AO 05-115803	F04S02
	AO 05-121934	F04S05
51	AC 05-157786	F51S01, F51S02, F51S03, F51S04, F51S05
54	AC 05-147321	F54S01, F54S02, F54S03, F54S04
55	AC 05-104523	F55S01
57	AC 05-161706	F57S01
58	AC 05-159484	F58S01, F58S02
59	AC 05-150794	F59S01, F59S03
60	AO 05-117084	F60S01
61	*	F61S01, F61S02
62	AC 05-157787	F62S01, F62S02
63	AC 05-158237	F63S01, F63S02, F63S03

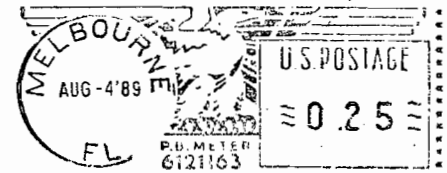
* Building 61 is exempt from air permitting requirements under FAC Rule 17-2.210(3)(m). Monitoring is being performed for chemical mass balance purposes.

Please call me at (407) 729-4061 if you have any questions.



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

Bruce Mitchell
Engineer
FDER
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400



Sincerely,

Nancy Baldisserotto

Nancy Baldisserotto
Environmental Engineer
Harris Semiconductor

\nab

cc: G. Kuberski
C. Collins
B. Mitchell
L. Hutker
D. Erdley

Emory Ego.
mailed 8-2-89
Orlando, FL

File Copy
General File



RECEIVED

AUG 3 1989

DER-BA...

August 2, 1989

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: HARRIS SEMICONDUCTOR -- AIR EMISSION MONITORING

Dear Mr. Fancy,

The purpose of this letter is to formally request the use of EPA Method 25A (as contained in 40 CFR 60; appendix A) for monitoring solvent emissions from the Melbourne site's wet scrubber systems.

A discussion with Bruce Mitchell (FDER, Tallahassee) on August 1st assured us that the monitoring methodology has recently been approved by the Department, and that a letter of request would be sufficient.

Monitoring is scheduled to begin on August 7th. If you have any questions, please feel free to contact me at (407) 729-4061.

Sincerely,

Nancy Baldisserotto

Nancy Baldisserotto
Environmental Engineer
Harris Semiconductor

FORM OF PAYMENT		SERVICES	
CASH <input type="checkbox"/> CBL <input type="checkbox"/> PPD <input checked="" type="checkbox"/> COL <input type="checkbox"/> OTH <input type="checkbox"/> COMAT <input type="checkbox"/>		UNITED STATES / CANADA Same Day <input type="checkbox"/> Next Morning <input checked="" type="checkbox"/> Second Day <input type="checkbox"/> Saturday Delivery <input type="checkbox"/>	
INTERNATIONAL Courier Express <input type="checkbox"/> Air Cargo <input type="checkbox"/> Air Economy <input type="checkbox"/>		Business Documents <input type="checkbox"/> Customs Clearance <input type="checkbox"/> Delivery <input type="checkbox"/>	
Shipper's Account Number: E 539427716		Date: 8-2-89 Origin: ORL Shipment Number: 2271809947	
From: HARRIS SEMICONDUCTOR PALM BAY ROAD PALM BAY, FL		To: Mr. [Name] 260 [Address] USA	
Description: HARRIS SEMICONDUCTOR		Tariff: 8507.10.00 Dest: USA Gateway: ORL	
Customer's Reference Numbers: 32909		Consignee's Account Number: 2999 Zip: 32909	
Dimensions: 12X15		Declared Value: \$ 260	
TOCSR: 15-9250		Barcode: 2271809947	
Shipper's Signature: [Signature]		Large Text: 260 260 Terms and Conditions on Back	
International Shipments: Third Party Account Number		International Shipments: Commodity Code	
International Shipments: Account Number		International Shipments: Third Party Billing	
International Shipments: International Customs Value		International Shipments: International Insurance	
Base Charge: Total Transportation Charges		Other Charges/Advance at Origin: CC/AC	

\nab
bcc:

C. Collins ✓
P. Sanabani
B. Mitchell ✓ 8-4-89 RAN
L. Hutker
D. Erdley



PM
6-20-89
Melbourne, FL

File 607

RECEIVED

June 19, 1989

JUN 22 1989

Bruce Mitchell
Engineer IV
Division of Air
Resources Management
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

DER-BAQM

SUBJECT: Status of the Harris Semiconductor Cogeneration Project

Dear Mr. Mitchell:

This letter is intended to follow-up on the status of Harris Semiconductor's potential cogeneration unit. Last year, we indicated to the Department that we hoped to have a final decision on whether to proceed with plans to install a cogeneration unit within a few months. We have been unable to resolve several important technical issues with the consultants who originally evaluated the feasibility of this project. As a consequence, we have retained new consultants and will continue to review the feasibility of a cogeneration unit during the next year.

We are continuing to look at various cost effective and practical means of reducing volatile organic compound ("VOC") emissions from the Harris Semiconductor facility. During the next fiscal year in addition to our internal staff efforts in this regard, we have budgeted funds for an engineering evaluation by consultants of potential technologies for reducing VOC emissions; cost analysis will be included in these studies.

The preliminary results from our air sampling activities last year seem to indicate a reduction in excess of ten (10) tons of VOC emissions from the facility as a whole. The facility wide mass balance seems to confirm a significant reduction in VOC emissions from 1987 levels. The results of these studies will be submitted to the Department in July.

If you have any questions or would like additional information, please do not hesitate to call me.

Best regards,

L. R. Hutker, Director
Facilities Support

E/19/89
DRE:pc

cc: D. R. Erdley
A. T. Sawicki