Check Sheet	
Company Name: Permit Number: PSD Number: Permit Engineer:	
Application: Initial Application	
Intent: F Revised Intent to Issue Notice of Intent to Issue Technical Evaluation BACT or LAER Determination Unsigned Permit Correspondence with:	
Final Determination: Final Determination Signed Permit BACT or LAER Determination Other	
Post Permit Correspondence: Extensions/Amendments/Modifications Other	

SENDER: Complete items 1 and 2 when additional s	services are desired, and complete items
Put your address in the "RETURN TO" Space on the reverse s from being returned to you. The return receipt fee will provide	
the date of delivery. For additional fees the following services and check box(es) for additional service(s) requested.	are available. Consult postmaster for fees
1. ☐ Show to whom delivered, date, and addressee's add (Extra charge)	dress. 2. Restricted Delivery (Extra charge)
3. Article Addressed to: Pos Pus.	1. Article Number 952 931
Jun Dapine, In.	Type of Service:
1820 NW 21ST ST.	Certified COD
promono och v	Express Mail Return Receipt for Merchandise
33060	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature Addressee	8. Addressee's Address (ONLY if requested and fee paid)
x Saletal	requested and see paids
6. Signature – Agent	
7. Date of Delivery	* * * * * * * * * * * * * * * * * * *
7. Date of Delivery 3 7 5 - 9/	
PS Form 3811, Apr. 1989 +U.S.G.P.O. 1989-238-815	DOMESTIC RETURN RECEIPT

P 407 852 931

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

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*U.S.G.P.O. 1989-234-555	affect and No. Joseph Postage	chol ch.f
Ì	Certified Fee	
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PS Form 3800, June 1985	Postmark or Date 3 - A.C. Olo - 184	13-91 1651



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400 Lawton Chiles, Governor Carol M. Browner, Secretary

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

Mr. Norm Nichol, President Sun Graphic, Inc. 1820 Northwest 21st Street Pompano Beach, Florida 33060

March 12, 1991

Enclosed is construction permit AC 06-184651 to construct an air stripper tower system for contaminated groundwater at your lithographic blanket manufacturing plant in Pompano Beach, Broward County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

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

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E

Chief

Bureau of Air Regulation

Copy furnished to:

Isidore Goldman, SE District Al Linero, Broward Co. Greg Worley, USEPA Robert Baker, P.E. Don Elhenbeck, BWC

Recycled Paper

CERTIFICATE OF SERVICE

The	unde	ersigr	ned du	lу	designa	ted	dep	uty c	lerk	hereby
certifies	-							-	were	mailed
before the	close	e of 1	buisness	on		3-1	3-(91		
									\	

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

Clerk

Final Determination

Sun Graphic, Inc. Pompano Beach, Florida Broward County

Air Stripper Tower System for Contaminated Groundwater

Permit No. AC 06-184651

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

Final Determination

The Technical Evaluation and Preliminary Determination for the permit to construct an air stripper tower system for contaminated groundwater at Sun Graphic, Inc.'s lithographic manufacturing plant located at 1820 Northwest 21st Street. Pompano Beach, Broward County, Florida, was distributed on October 26, 1990. An Amendment to the October 26, Preliminary Evaluation and Determination distributed on December 21, 1990. The Notice of Intent to Issue was published in the Fort Lauderdale News/Sun-Sentinel on January 4, 1991. Copies of the evaluation were available for public inspection at the Broward County Environmental Quality Control Board (EQCB) office in Fort Lauderdale and the Department offices in West Palm Beach and Tallahassee.

Broward County EQCB's air toxic program submitted calculations showing that the proposed air stripper should be at least 27 feet high to keep the toluene concentration below the acceptable ambient air concentration. The Department notes that the proposed height of the air stripper is 28.3 feet.

Because of delays in the issuance of this permit, the Department is extending its expiration date. The final action of the Department will be to issue construction permit AC 06-184651 as proposed in the Amendment to the October 26, 1990, Technical Evaluation and Preliminary Determination, except for the change noted above.



Florida Department of Environmental Regulation

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

Carol M. Browner, Secretary

PERMITTEE: Sun Graphic, Inc. 1820 NW 21st Street Pompano Beach, Florida 33060

Permit Number: AC 06-184651 Expiration Date: July 1, 1991

County: Broward

Latitude/Longitude: 26°15'26"N

80°08'49"W

Project: Air Stripper Tower

System

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

For the construction of a 99+% efficient contaminated ground water air stripper system consisting of a shallow well, collection tank, tower feed pump (50 GPM flow), 28.3 ft. (min) high air stripper tower (1.5 ft. diameter packed column containing 22 ft. of packing), mist eliminator, air blower (1,060 ACFM), and a biocide The air stripper system will be located at permittee's existing lithographic blanket manufactuirng plant in Pompano Beach, Broward County, Florida.

The UTM coordinates of this site are Zone 17, 585.2 km E and 2904.3 km N.

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

Attachments are listed below:

- DER letter dated August 23, 1990.
- Baker Enviro. Eng. letter dated September 18, 1990.
- Baker Enviro. Eng. letter dated November 7, 1990.
- Broward County EQCB memo dated January 23, 1991.

Page 1 of 6



Permit Number: AC 06-184651 Expiration Date: July 1, 1991

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

Permit Number: AC 06-184651 Expiration Date: July 1, 1991

GENERAL CONDITIONS:

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

- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
 - a. Have access to and copy any records that must be kept under the conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

Permit Number: AC 06-184651 Expiration Date: July 1, 1991

GENERAL CONDITIONS:

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

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- 11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- 12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
- 13. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and

Permit Number: AC 06-184651 Expiration Date: July 1, 1991

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the dates analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

- 1. The contaminated water flow to the air stripper column shall not exceed 50 GPM. The permittee shall check the flow rate to the column (stripper) at least once during each normal business day that the system is in operation.
- 2. The concentration of toluene in the contaminated ground water shall not exceed 370,000 ug/l. During start-up, the influent and effluent from the air stripper shall be sampled for the BTEX compounds every 12 hours for 3 days by Methods 5030/8020 or other methods with the approval of the Department. Following start-up, the influent and effluent from the air stripper shall be monitored monthly for BTEX compounds.
- 3. Based on the procedures described in the Department's October 20, 1987, memorandum titled Final Air Stripper Review Procedure, or other methods with prior approval of the Department, the emissions from the air stripper system shall not exceed:

Permit Number: AC 06-184651 Expiration Date: July 1, 1991

SPECIFIC CONDITIONS:

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04
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^{*} Excludes initial 3 month operation.

The Department may require analysis of the ground water for any suspected compound it has good reason to believe is being emitted in excess of the quantities listed in the application.

- 4. The air stripper system may operate continuously, 8760 hrs/yr.
- 5. The air stripper column system shall not discharge air pollutants in quantities that cause or contribute to objectionable odors.
- 6. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
- 7. An application for an operation permit must be submitted to the Southeast District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued this day of Man, 1991

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Carol M. Browner, Secretary



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

	For Routing To Other	Then The Addressee	_
To:		Location:	<u>.</u>
То:		Location:	_
To:		Location:	_
From:	····	Date:	_

Interoffice Memorandum

TO: Carol M. Browner

FROM: Clair Fancy ()

DATE: February 25, 1991

SUBJ: Approval of Construction Permit AC 06-184651

Sun Graphic, Inc.

Attached for your approval and signature is a permit prepared by the Bureau of Air Regulation for the above mentioned company to construct an air stripper tower system for contaminated groundwater at Sun Graphic, Inc.'s lithographic blanket manufacturing plant in Pompano Beach, Broward County, Florida.

The only comments submitted were from Broward County EQCB.

Day 90, after which this permit will be issued by default, is March 28, 1991.

I recommend your approval and signature.

CF/WH/plm

Attachments

PATSO2 update 3/8/91 Bom



6821 S.W. Archer Road Gainesville, FL 32608 TEL (904) 371-9451 FAX (904) 378-1500

RECEIVED

September 5, 1991 B-2253 SEP 1 0 1991

Division of Air Resources Management

Ms. Daniela Banu
Broward County Office of
Natural Resource Protection
621 South Andrews Avenue
Fort Lauderdale, Florida 33301

RE: Sun Graphic, Inc.
Construction Permit # AC 06-18465
Certificate of Completion of Construction of the Air Stripper

Dear Ms. Banu:

Based on successful installation and operational tests of the air stripper, I am requesting that a 5 year operating permit be issued.

Attached is the following:

- Two (2) copies of the FDER Certificate of Completion of Construction for the Air Stripper.
- A check for \$30.00 (filing fee).

Please let me know if you need further information or have any questions concerning this application.

Sincerely,

BAKER ENVIRONMENTAL ENGINEERING, INC.

Robert A. Baker, P.E.

xc: Willard Hanks - FDER (Tallahassee)

Bill Baker - Sun Graphic, Inc. Stephanie Brooks - FDER (SW) Norm Nichol - Rycoline, Inc.

6821 S.W. Archer Road Gainesville, FL 32608 TEL (904) 371-9451 FAX (904) 378-1500

September 5, 1991 B-2253

Ms. Stephanie Brooks
Florida Department of Environmental
Regulation
Southwest District
1900 South Congress Avenue
West Palm Beach, Florida 33406

RE: Sun Graphic, Inc.

Construction Permit # AC 06-184651

Certificate of Completion of Construction for the Air Stripper

Dear Ms. Brooks:

Based on successful installation and operational tests of the air stripper, I am requesting that a 5 year operating permit be issued.

Attached are the following:

- Three (3) copies of the FDER Certificate of Completion of Construction for the Air Stripper.
- A check for \$750.00 (filing fee) based on Sun Graphic, Inc. being a minor source per the SRS permit.

Please let me know if you need further information or have any questions concerning this application.

Sincerely,

BAKER ENVIRONMENTAL ENGINEERING, INC.

Robert A. Baker, P.E.

xc: Daniela Banu - BCONRP

Willard Hanks - FDER (Tallahassee)

Bill Baker - Sun Graphic, Inc. Norm Nichol - Rycoline, Inc.

SENDER: Complete items 1 and 2 when additions 3 and 4. Put your address in the "RETURN TO" Space on the reverse from being returned to you. The return receipt fee will provie the date of delivery. For additional fees the following service and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's (Extra charge)	se side. Failure to do this will prevent this card de you the name of the person delivered to and ces are available. Consult postmaster for fees address. 2. Restricted Delivery (Extra charge)
3. Article Addressed to: Mr. Norm Nichol, President un Graphic, Inc. 1820 Northwest 21st Street Pompano Beach, FL 33060	4. Article Number P 407 852 675 Type of Service: Registered Cod Express Mail
5. Signature – Addressee X Jo Anne Smoll 10 6. Signature – Agent	Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid)
7. Date of Delivery 5 - 3 -9/ PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-23	8-815 DOMESTIC RETURN RECE
P 407 852 RECEIPT FOR CERTIF NO INSURANCE COVERAGE PI NOT FOR INTERNATIONAL	IED MAIL ROVIOED

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	(See Heverse)	
234-555	Sent to Mr. Norm Nichol, Su	ın Graphic
	Street and No. 1820 Northwest 21st	Street
S.G.P.O	P.O. State and ZIP Code Pompano Beach, FL 3	
U &	Postage	S
	Certified Fee	
*	Special Delivery Fee	
	Restricted Delivery Fee	
10	Return Receipt showing to whom and Date Delivered	
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Jun,	TOTAL Postage and Fees	S
3800	Postmark or Date Mailed: 4-30-91	
PS Form 3800, June 1985	Permit: AC 06-1846	51

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Florida Department of Environmental Regulation

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

Lawton Chiles, Governor Carol M. Browner, Secretary

April 23, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Norm Nichol, President Sun Graphic, Inc. 1820 Northwest 21st Street Pompano Beach, Florida 33060

Dear Mr. Nichol:

RE: AC 06-184651, Air Stripper Tower System

The Department is in receipt of Baker Environmental Engineering, Inc.'s March 18, 1991 letter, requesting the referenced construction permit be extended to allow additional time for the application for permit to operate to be submitted. This request is acceptable to the Department thereby the expiration date of construction permit No. AC 06-184651 is extended from July 1, 1991, to October 1, 1991. A copy of this letter must be filed with the referenced construction permit and shall become a part of that permit.

Sincerely,

Carol M. Browner

Secretary

CMB/kt

attachment

cc: I. Goldman, SE District

A. Linero, Broward County

R. Baker, P.E.



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

		<u> </u>	
	For Routing To Other Than	The Addressee	
To:		Location:	
To:		Location:	
To:		Location:	
From:		Oate:	

APR24

Office of the Secretary

Interoffice Memorandum

TO: Carol Browner, Secretary

FROM: Clair Fancy, Chief

Bureau of Air Regulation

DATE: April 23, 1991

SUBJ: Amendment of Construction Permit No. AC 06-184651

Sun Graphic, Inc.

Attached for your approval and signature is a letter that will extend the expiration date of a permit to construct a stripper tower system for Sun Graphic, Inc. of Pompano Beach, Broward County, Florida. The extension was requested to allow time to submit the application for permit to operate.

This request is not controversial and I recommend your approval and signature.

CHF/WH/t

attachment



6821 S.W. Archer Road Gainesville, FL 32608 TEL (904) 371-9451 FAX (904) 378-1500

March 18, 1991 B-2254

RECEIVED MAR 20 1991

DER - BAQM

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

RE: Sun Graphic, Inc. Air Permit for an Air Stripper Tower System for Contaminated Groundwater, Permit No. AC 06-184651.

Dear Mr. Fancy

Sun Graphic, Inc has received the above referenced permit, which was mailed from your office on March 13, 1991. Per Specific Condition 7, Sun Graphic is required to submit an application for an operation permit to the Southeast District at least 90 days before the expiration of the construction permit. Since the construction permit expires July 1, 1991, the operation permit application would have to be submitted by April 2nd to meet the 90-day deadline. Construction of the air stripper system will not be completed until June 1991. As a result, Sun requests a 90-day extension (until October 1, 1991) of the permit for the air stripper tower per Specific Condition 6 of the referenced permit.

Thank you for your help in this matter. Please call me if you have any questions or need additional information.

Sincerely,

BAKER ENVIRONMENTAL ENGINEERING, INC.

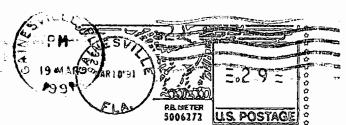
Robert A Baker, P.E.

RAB: phm

xc: Dan Smolen, Sun Graphic Isidore Goldman, SE District Al Linero, Broward County W. Nanka DUCT



6821 S.W. Archer Road Gainesville, FL 32608



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



Air Quality 621 S. Andrews Avenue Ft. Lauderdale, FL 33301 (305) 765-4437

RECEIVED DER. BAQM

MEMORANDUM

TO: Willard Hanks

Bureau of Air Regulation, DER

FROM: Daniel Dossman

Office of Natural Resource Protection, Air Section

DATE: January 23, 1991

REFERENCE: Sun Graphic Inc,

1820 NW 21 Street

Pompano Beach, Fl. 33060

DER File No AC 06-184651/Air Stripper

COMMENTS:

We received the letter dated November 7, 1990 in which the applicant requested a modification to the preliminary permit determination for the air stripper permit (AC 06-184651).

The Air Toxics Evaluation was conducted and revealed that the emissions are not in accordance with the FDER Acceptable Ambient Air Standards. Toluene emissions are modeling high.

An increase of the stack height by two feet is recommended.

Please find attached the comparative calculations.

BROWARD COUNTY EQCB AIR SECTION AIR TOXICS PROGRAM

12/13/90

AIR STRIPPER

PROJECT: SUN GRAPHIC. INC

EMISSION CALCU	LATIONS	FLOW RATE	50 Gal/min	STACK H(f) 27
	TLV FAC	A.S. Eff	0.999 %	AAC mg/m3 M.A.C mg/m3 RESULTS M.A.C>AAC
BENZENE	3 100	276 ppb	0.0069 lb/h	0.0071 0.0013 FALSE
TOLUENE	375 50	370000 ppb	9.1982 lb/h	1.7850 1.7328 FALSE
XYLENE	435 100	1280 ppb	0.0318 lb/h	1.0353 0.0060 FALSE
ETHYLBENZENE	435 100	966 ppb	0.0240 lb/h	1.0353 0.0045 FALSE
MEK	590 100	56 ppb	0.0014 lb/h	1.4042 0.0003 FALSE

NOTE: Calculations revealed compliance when stack height is increased by two feet

BROWARD COUNTY EQCB AIR SECTION AIR TOXICS PROGRAM

12/13/90

AIR STRIPPER

PROJECT: SUN GRAPHIC. INC

EMISSION CALCU	LATIONS		FLOW RATE	50 Gal/min	STACK H(f)	25	
	TLV FA		A.S. Eff	0.999 %	AAC mg/m3 M.A		ESULTS A.C>AAC
BENZENE	3 10	10 276	ppb	0.0069 lb/h	0.0071	0.0015	FALSE
TOLUENE	37 5 5	0 370000	ppb	9.1982 lb/h	1.7850	2.0627	TRUE
XYLENE	435 10	0 1280	ppb	0.0318 lb/h	1.0353	0.0071	FALSE
ETHYLBENZENE	435 10	0 966	ppb	0.0240 lb/h	1.0353	0.0054	FALSE
MEK	590 10	0 56	ppb	0.0014 lb/h	1.4042	0.0003	FALSE

NOTE: Air stripper emissions are NOT in accordance with the FDER Aceptable Ambient Air standards Toluene emissions are modeling high

RECOMMENDATION: Increase stack height by two feet

BROWARD COUNTY O.N.R.P. 621 S. ANDREWS AVENUE FORT LAUDERDALE FLORIDA 33301

Phone # (305) 765-4436

Fax # (305) 765-4109

To:

Burn of Air Management

From:

Daniel Dorman

ONRP

Parrward Courty

1/23/91

Project No.:

If you cannot read any portion of this transmission, please contact O.N.R.P. as soon as possible.

Number of pages including cover sheet

MEMORANDUM

To: Willard Hanks

Bureau of Air Regulation, DER

FROM: Daniel Dossman

Office of Natural Resource Protection, Air Section

DATE: January 23, 1991

REFERENCE: Sun Graphic Inc,

1820 NW 21 Street

Pompano Beach, Fl. 33060

DER File No AC 06-184651/air stripper

COMMENTS:

We received the letter dated November 7, 1990 in which the applicant requested a modification to the preliminary permit determination for the air stripper permit (AC 06-184651).

The Air Toxics Evaluation was conducted and revealed that the emissions are not in accordance with the FDER Acceptable Ambient Air Standards. Toluene emissions are modeling high. Increases stack height by two feed is recommended.

Please find attached.

BROWARD COUNTY EQCB AIR SECTION AIR TOXICS PROGRAM

12/13/90

AIR STRIPPER

PROJECT: SUN GRAPHIC. INC

EMISSION CALCU	LATIONS	6		FLOW RATE	50 Gal/min	STACK H(f) 27
	TLV	FAC		A.S. Eff	0.999 %	AAC mg/m3 M.A.C mg/m3 RESULTS M.A.C>AAC
BENZENE	3	100	276	ppb	0.0069 lb/h	0.0071 0.0013 FALSE
TOLUENE	375	50	370000	ppb	9.1982 lb/h	1.7850 1.7328 FALSE
XYLENE	435	100	1280	ppb	0.0318 Lb/h	1.0353 0.0060 FALSE
ETHYLBENZENE	435	100	966	ppb	0.0240 lb/h	1.0353 0.0045 FALSE
MEK	590	100	56	ppb	0.0014 lb/h	1.4042 0.0003 FALSE

NOTE: Calculations revealed compliance when stack height is incresed by 2 feet

BROWARD COUNTY EQCB AIR SECTION AIR TOXICS PROGRAM

12/13/90

AIR STRIPPER

PROJECT: SUN GRAPHIC. INC

EMISSION CALCU	LATIONS			FLOW	RATE	50	Gai/min	STACK H(f)	25	
	TLV	FAC		A.S.	Eff	0.999	*	AAC mg/m3	Em\gm 3.A.M	RESULTS
BENZENE	3	100	276	ppb		0.0069	lb/h	0.0071	0.0015	FALSE
TOLUENE	375	50	370000	dqq		9,1982	(b/h	1.7850	2.0627	TRUE
XYLENE	435	100	1280	ppb		0.0318	(b/h	1.0353	0.0071	FALSE
ETHYLBENZENE	435	100	966	dqq		0.0240	lb/h	1.0353	0.0054	FALSE
MEK	590	100	56	ppb		0.0014	lb/h	1.4042	0.0003	FALSE

NOTE: Air stripper emissions are NOT in accordance with the FDER Aceptable Ambient Air standards Toluene emissions are modeling high

RECOMMENDATION: Increase stack height two feet

Dun Braghics Air Stripper St. = 2,8.3 ft = 8.63 m. \ Dua, = 1,5 ft + 70.46 m

flow = 1,060 FT3/MIN

Temp = amb

Velout = 1,060 FT = 10 F85

MIN 1.77 F72 60 SEC

= (3.05 m/s)

Emosin = 9,26/hs/hr /454gras hr /36005EE / 16

mars I he Import 996.4 Ug/m³ @ 122 m mars 8 h = (996.4)(0.7) = 697.5 Ug/m³ mars annual = (996.4)(0.2) = 199.3 Ug/m³ Annual No Sheet level = 2,000 TLV = 375 mg/m³ AAC = 40 1 375x10³ = 3,750 ug/m³ 40 hurk 40 100

MAC = 40 1 275×103 = 892 Ug/m = .

```
*** SCREEN-1.1 MODEL RUN ***

*** DRAFT VERSION XXXXX ***
```

sun graphics air stripper

```
SIMPLE TERRAIN INPUTS:
```

SOURCE TYPE	=	POINT
EMISSION RATE (G/S)	=	1.170
STACK HEIGHT (M)	=	8.63
STK INSIDE DIAM (M)	=	.46
STK EXIT VELOCITY (M/S) =	3.05
STK GAS EXIT TEMP (K)	=	293.00
AMBIENT AIR TEMP (K)	=	293.00
RECEPTOR HEIGHT (M)	=	.00
1011 (1 0112/2 11011)	=	2
BUILDING HEIGHT (M)	=	.00
MIN HORIZ BLDG DIM (M)	=	.00
MAX HORIZ BLDG DIM (M)	=	.00

BUOY. FLUX = .00 M**4/S**3; MOM. FLUX = .49 M**4/S**2.

*** FULL METEOROLOGY ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
1.	.0000	0	.0		.0	0			
				.0			.0	.0	
100.	925.2	3	1.0	1.0	320.0	12.8	12.5	7.5	NO
200.	908.2	4	1.0	1.0	320.0	12.8	15.6	8.6	NO
300.	889.4	5	1.0	1.0	5000.0	12.6	16.9	8.8	NO
400.	812.0	6	1.0	1.0	5000.0	12.3	14.7	7.1	NO
500.	855.3	6	1.0	1.0	5000.0	12.3	18.0	8.5	NO
600.	813.2	6	1.0	1.0	5000.0	12.3	21.3	9.8	NO
700.	741.6	6	1.0	1.0	5000.0	12.3	24.5	1i.0	NO
800.	664.9	6	1.0	1.0	5000.0	12.3	27.7	12.0	NO
900.	595.3	6	1.0	1.0	5000.0	12.3	30.8	13.0	NO
1000.	534.1	6	1.0	1.0	5000.0	12.3	33.9	14.0	NO -
MAXIMUM	1-HR CONCENT	RATION	AT OR	BEYOND	1. M	:		•	``
122.	996.4	3	1.0	1.0	320.0	12.8	15.1	9.1	NO

DWASH= MEANS NO CALC MADE (CONC = 0.0)
DWASH=NO MEANS NO BUILDING DOWNWASH USED
DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

BEST AVAILABLE COPY



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

İ	For Routing To Other Then The Addressee
ъ	Lacation
ъ	Location
To :	Location
From:	Date

Interoffice Memorandum

TO:

Scott Benyon

FROM:

Patricia E. Comer

DATE:

January 17, 1991

RE:

OGC FILE NO. 90-1690

SUN GRAPHIC, INC. V. & DER

Permit Application No. AP 06-184651

On November 21, 1990, petitioner was granted an extension of time until January 10, 1991, in which to file a petition for administrative proceedings concerning the above-captioned case. No petition or further request for extension was filed within the allotted extension of time.

If you have not taken any action since the petition was filed, the original agency action is now final. Please advise me of your disposition of this matter so that we may update and close our file.

Please call if there are any questions. Thank you for your assistance.

PEC/ld

RECEIVED

JAN 2 2 1991

Dept. of Environmental Reg.
West Palm Peach

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

DISTRICT ROUTING SLIP

PENSACOLA	Northwest District				
PANAMA CITY	Northwest District Branch Office				
TALLAHASSEE	Northwest District Branch Office				
TAMPA	Southwest District				
ORLANDO	Central Florida/District				
MELBOURNE	Central Florida District Branch Office				
JACKSONVILLE	Northeast Distibut				
GAINESVILLE	Notificati District Branch Office				
FORT MYERS	South Florida Wastrica				
PUNTA GORDA	South Florida District Branch Office				
MARATHON	South Florida District Branch Office				
WEST PALM BEACH	Southeast Florida District				
PORT ST. LUCIE	Southeast Florida District Branch Office				
Reply Optional Date Due:	Repty Required				
OMMENTS:					
Looks 11	ke your permit				
action.					
J. Goldm	ans				
	TFI:				

ESTER RATION, PARM BEACH COUNTY, FLORIDA - MIRNI, DADE COUNTY, FLORIDA

STATE OF FLORIDA COUNTY OF ENCLARDIPALM BEACHIDADE

EFFORE THE UNDERSTONED AUTHORITY PERSONALLY
APPEARED

DATH SAYS THAT HE/SHE IS A DULY AUTHORIZED
REPRESENTATIVE OF THE CLASSIFIED DEPARTMENT OF THE FORT LAUDERDALE NEWS/SUN-SENTINEL, DAILY NEWSPAPERS PUBLISHED IN BROWARD/PALM HEACH/DADE COUNTY, FLORIDA THAT THE ATTACHED COPY OF RECEIVED ADVERTISEMENT, BEING A

JAN 14 1981

IN THE MATTER OF

DER - BAQM

AC 06-184651

IN THE CIRCUIT COURT, WAS PUBLISHED IN SAID NEWSPAPER IN THE ISSUES OF .

C-1/4-1X

AFFIANT FURTHER SAYS THAT THE SAID FORT LAUDERDALE NEWS/SUN-SENTINEL ARE NEWSPAPERS PUBLISHED IN SAID BROWARD/PALM BEACH/DADE COUNTY, FLORIDA, AND THAT THE SAID NEWSPAPERS HAVE HERETOFORE BEEN CONTINUOUSLY PUBLISHED IN SAID BROWARD/PALM BEACH/DADE COUNTY, FLORIDA, EACH DAY, AND HAVE BEEN ENTERED AS SECOND CLASS MATTER AT THE POST OFFICE IN FORT LAUDERDALE, IN SAID BROWARD COUNTY, FLORIDA, FOR A PERIOD OF ONE YEAR NEXT PRECEDING THE FIRST PUBLICATION OF THE ATTACHED COPY OF ADVERTISEMENT; AND AFFIANT FURTHER SAYS THAT HE/SHE HAS NEITHER PAID NOR PROMISED ANY PERSON, FIRM OR CORPORATION ANY DISCOUNT, REBATE, COMMISSION OR REFUND FOR THE PURPOSE OF SECURING THIS ADVERTISEMENT FOR PUBLICATION IN SAID NEWSPAPERS.

AUTHORIZED REPRESENTATIVE

SWORN TO AND SUBSCRIBED BEFORE ME THIS O4 DAY OF JANUARY

Jasa L. Benak

Notery Public, State of North 00 : A. Harris W. F.C. LLLE, BCDRP & Enlamon, sed **BEST AVAILABLE COPY**

RECEIVED

Dept. of Environmental Reg. West Palm Beach

JAN 1 8 1991

FORT LAUDERDALE NEWS/SUN-SENTINEL PUBLISHED DAILY FORT LAUDERDALE, BROWARD COUNTY, FLORIDA BOCA RATON, PALM BEACH COUNTY, FLORIDA MIAMI, DADE COUNTY, FLORIDA

STATE OF FLORIDA COUNTY OF BROWARD/PALM BEACH/DADE

BEFORE THE UNDERSTIGNED ANTHORITY PERSONALLY MHO ON DATH SAYS THAT HE/SHE IS A DULY AUTHORIZED REPRESENTATIVE OF THE CLASSIFIED DEPARTMENT OF THE FORT LAUDERDALE NEWS/SUN-SENTINEL, DAILY NEWSPAPERS PUBLISHED IN BROWARD/PALM BEACH/DADE . COUNTY, FLORIDA THAT THE ATTACHED COPY OF RECEIVED ADVERTISEMENT, BEING A

NOTICE

IN THE MATTER OF

AC 06-184651

JAN 14.1991

DER - BAQM

IN THE CIRCUIT COURT, WAS PUBLISHED IN SAID NEWSPAPER IN THE ISSUES OF C-1/4-1X

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AUTHORIZED REPRESENTATIVE

SWORN TO AND SUBSCRIBED BEFORE ME THIS OF DAY OF JANUARYLAK

A-D- 1990

(SEAL)

Notary Public, State of Florida My Commission Expires July 20, 1983..... Bondod Thru Troy Fain - Insurance Ined

CC: A. Hanko a. Finero, BCNRP I, Galdman, SED

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

The Department of En-The Department of Environmental Regulation hereby gives notice of its intent to issue an air pollution construction permit (AC 06-184651) to Sun Graphic linc., 1820 N.W. 21st St. Pompano Beach, Florida 33060. The permit authorizes the installation of an air stripper tower system to rizes the installation of an air stripper tower system to treat contaminated ground-water at their lithographic blanket manufacturing plant located at 1820 N.W. 21st St., Pompano Beach, Broward Co., Florida. The system will emit up to 9.26 libs/hr and 0,04 TPY toluene along with smaller quantities of benzene, ethyl benzene, xylene, MED and other organic pollutants from the contaminated ground-water. Best; Available Control Technology (BACT) and Lowest Achievable Emission Rate (LAER) determinations were not required. These emissions will not cause a violation of any ambient air emissions will not cause a violation of any ambient air quality standard or Prevention of Significant Deterloration (PSD) increment. The Department is issuing this intent to issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

CS4902

Department's action or proposed action;
(d) A statement of the material facts disputed by the 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.

proposed action.

If a petition is filed, the administrative hearing process is designed to formu-

SUNgraphic inc

1820 Northwest 21st Street o Pompano Beach, Florida 33069





U.S. POSTAL SERVICE OFF VOIAL SPENSOR 1992; OLYMPID GAMES

Mr. Willard Hanks
Air Engineer
Florida Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Anthodological desirable and the March and the

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

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

Department of Environmental Regulation

Bureau of Alr Regulation

2600 Blair Stone Road

Bureau of Air Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Department of Envi-ronmental Regulation Southeast District 1900 S. Congress Ave-nue, Suite A West Palm Beach, Florida 33406 Broward County Envi-

West Palm Beach, FlorIda 33406
Broward County Environmental Quality Control Board
621 South Andrews Avenue
Fort Lauderdale, FlorIda 33310
Any person may send written comments on the proposed action to Mr. Barry Andrews at the Department's Tallahassee address. All comments malled within 14 days of the publication of this notice will be considered in the Department's final determination. January 4, 1991

SENDER: Complete items 1 and 2 when additional 3 and 4. Put your address in the "RETURN TO" Space on the reverse from being returned to you. The return receipt fee will provide the date of delivery. For additional fees the following service	side. Failure to do this will prevent this card you the name of the person delivered to and
and check box(es) for additional service(s) requested. 1. ☐ Show to whom delivered, date, and addressee's ad (Extra charge)	dress. 2. 🗆 Restricted Delivery (Extra charge)
3. Article Addressed to: The norm nichol, Pres. Jun Graphic, Onc. 1820 TW 21st St. forpano Beach, O1 33060	4. Article Number 256 395 9 Type of Service: Registered Cortified Express Mail Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Addressee X 6 Signature - Agent X Market 7. Date of Delivery 12-26-90	8. Addressee's Address (ONLY if resultsted and fee paid)
PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815	DOMESTIC RETURN RECEIPT

P 256 395 059

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED

NOT FOR INTERNATIONAL MAIL

(See Reverse)

34-55	Sent to Norm Nichel							
1989-2	Street and No. Gaphic							
☆ Ù.S.G.P.O. 1989-234-555	P.O. State and ZIP Code 15+	-st.						
☆Ú.S	Por pano Bo	h. FI						
	Certified Fee _	7						
	Special Delivery Fee							
	Restricted Delivery Fee							
,	Return Receipt showing to whom and Date Delivered							
PS Form 3800, June 1985	Return Receipt showing to whom, Date, and Address of Delivery							
June	TOTAL Postage and Fees	S						
3800,	Postmark or Date AC 86-1	84651						
orn.	12-21	-90						
PS F								



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

December 18, 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Norm Nichol, President Sun Graphic, Inc. 1820 Northwest 21st Street Pompano Beach, Florida 33060

Dear Mr. Nichol:

Attached is one copy of an amendment to the Technical Evaluation and Preliminary Determination and proposed permit to construct an air stripper tower system for contaminated groundwater at your existing lithographic blanket manufacturing plant in Pompano Beach, Broward County, Florida.

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

Sincerely,

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

CHF/WH/plm

Attachments

c: Isidore Goldman, SE District Al Linero, Broward Co. Greg Worley, USEPA Robert Baker, P.E. Don Elhenbeck, BWC

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of Applications for Permits by:

Sun Graphic, Inc. 1820 N.W. 21st Street Pompano Beach, Florida 33060 DER File No. AC 06-184651

INTENT TO ISSUE

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

The applicant, Sun Graphic, Inc., applied on August 3, 1990, to the Department of Environmental Regulation for a permit to construct an air stripper tower system to treat contaminated groundwater at the existing lithographic blanket manufacturing plant in Pompano Beach, Broward County, Florida.

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

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permits. The notice shall be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department, at the address specified within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

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

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section The petition must Florida Statutes. contain information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within days of receipt of this intent. Petitions filed b other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. to file a petition within this time period shall Failure 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 to formulate agency action. Accordingly, Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application(s) 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 publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

Copies furnished to:

Isidore Goldman, SE District Al Linero, Broward Co. Greg Worley, USEPA Robert Baker, P.E. Don Elhenbeck, BWC

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 12-21-90.

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

Clerk

12-21-90

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

Department of Environmental Regulation hereby notice of its intent to issue an air pollution construction permit (AC 06-184651) to Sun Graphic Inc., 1820 N.W. 21st St., Pompano The permit authorizes the installation of Beach, Florida 33060. an air stripper tower system to treat contaminated groundwater at their lithographic blanket manufacturing plant located at 1820 N.W. 21st St., Pompano Beach, Broward Co., Florida. The system will emit up to 9.26 lbs/hr and 0.04 TPY toluene along with smaller quantities of benzene, ethyl benzene, xylene, MEK other organic pollutants from the contaminated groundwater. Available Control Technology (BACT) and Lowest Achievable Emission Rate (LAER) determinations were not required. These emissions will not cause a violation of any ambient air quality standard or Prevention of Significant Deterioration (PSD) increment. Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

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

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (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 formulate agency action. Accordingly, Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applications have the right to petition to become a party to the proceeding. The petition must conform to the requirements (received) within specified above and be filed 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

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

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

Department of Environmental Regulation Southeast District 1900 S. Congress Avenue, Suite A West Palm Beach, Florida 33406

Broward County Environmental Quality Control Board 621 South Andrews Avenue Fort Lauderdale, Florida 33310

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

Amendment to the October 26, 1990 Technical Evaluation and Preliminary Determination

Sun Graphic, Inc.
Pompano Beach, Florida
Broward County

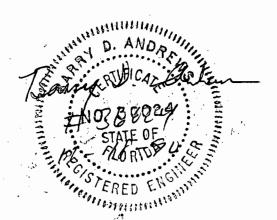
Air Stripper Tower System for Contaminated Groundwater

Permit No. AC 06-184651

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

Amendment

The Technical Evaluation and Preliminary Determination for the permit to construct an air stripper tower system to treat contaminated ground water at Sun Graphic, Inc.'s lithographic blanket manufacturing plant in Pompano Beach, Broward County, Florida, was distributed on October 26, 1990. The Department told the applicant not to publish the Public Notice until the design changes that were confirmed in Baker Environmental Engineering, Inc.'s November 7, 1990, letter were evaluated. The design changes were operating the air stripper system at a higher flow of water containing higher concentrations of pollutants. Although annual emissions are unchanged, the maximum hourly emissions are The maximum concentration caused by these emissions in higher. the ambient air, knowing the emissions and stack parameters, can be estimated using EPA's Screening Model. From the TLV values for the specific pollutants, an acceptable ambient air concentration for each pollutant can be determined. These calculations were done on the proposed project and the results show the impact from this source will be below the acceptable ambient air standards. The attached amended Public Notice and proposed permit addresses the changes requested. To provide reasonable assurance that the air stripper system will comply with the air regulations, the Department did retain limits on the maximum flow of contaminated water, maximum concentration of pollutant in the water, and the emissions in Specific Conditions Nos. 1, 2, and 3. The applicant must publish the attached Public Notice to resume the permitting process.





Florida Department of Environmental Regulation

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

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

PERMITTEE:
Sun Graphic, Inc.
1820 NW 21st Street
Pompano Beach, Florida

Permit Number: AC 06-184651 Expiration Date: March 1, 1991

County: Broward

Latitude/Longitude: 26°15'26"N

80°08'49"W

Project: Air Stripper Tower

System

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

33060

For the construction of a 99+% efficient contaminated ground water air stripper system consisting of a shallow well, collection tank, tower feed pump (50 GPM flow), 28.3 ft. (min) high air stripper tower (1.5 ft. diameter packed column containing 22 ft. of packing), mist eliminator, air blower (1,060 ACFM), and a biocide feeder. The air stripper system will be located at the permittee's existing lithographic blanket manufactuirng plant in Pompano Beach, Broward County, Florida.

The UTM coordinates of this site are Zone 17, 585.2 km E and 2904.3 km N.

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

Attachments are listed below:

- DER letter dated August 23, 1990.
- Baker Enviro. Eng. letter dated September 18, 1990.
- 3. Baker Enviro. Eng. letter dated November 7, 1990.

Page 1 of 6

Permit Number: AC 06-184651
Expiration Date: March 1, 1991

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

Permit Number: AC 06-184651 Expiration Date: March 1, 1991

GENERAL CONDITIONS:

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

- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
 - a. Have access to and copy any records that must be kept under the conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

Permit Number: AC 06-184651 Expiration Date: March 1, 1991

GENERAL CONDITIONS:

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

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- 11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- 12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
- 13. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and

Permit Number: AC 06-184651 Expiration Date: March 1, 1991

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the dates analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

- 1. The contaminated water flow to the air stripper column shall not exceed 50 GPM. The permittee shall check the flow rate to the column (stripper) at least once during each normal business day that the system is in operation.
- 2. The concentration of toluene in the contaminated ground water shall not exceed 370,000 ug/l. During start-up, the influent and effluent from the air stripper shall be sampled for the BTEX compounds every 12 hours for 3 days by Methods 5030/8020 or other methods with the approval of the Department. Following start-up, the influent and effluent from the air stripper shall be monitored monthly for BTEX compounds.
- 3. Based on the procedures described in the Department's October 20, 1987, memorandum titled Final Air Stripper Review Procedure, or other methods with prior approval of the Department, the emissions from the air stripper system shall not exceed:

Permit Number: AC 06-184651 Expiration Date: March 1, 1991

SPECIFIC CONDITIONS:

<u>Pollutant</u>	Maximum lbs/hr	Emissions TPY (Avg)*
Ma luana	0.26	0.04
<u>Toluene</u>	9,26	0.04
<u>Benzene</u>	0,007	0.0004
Ethyl Benzene	0.0242	0.0008
Xylene	0.0320	0.0004
MEK	0.0014	0.00004

^{*} Excludes initial 3 month operation.

The Department may require analysis of the ground water for any suspected compound it has good reason to believe is being emitted in excess of the quantities listed in the application.

- 4. The air stripper system may operate continuously, 8760 hrs/yr.
- 5. The air stripper column system shall not discharge air pollutants in quantities that cause or contribute to objectionable odors.
- 6. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
- 7. An application for an operation permit must be submitted to the Southeast District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued	this	 day
of		 1990

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

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

6821 S.W. Archer Road Gainesville, FL 32608 TEL (904) 371-9451 FAX (904) 378-1500

November 7, 1990 PC B-2254

OFF BOOK OF A STATE OF A ST

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

Re: DER File No. AC 06-1B4651
In the Matter of an Application for Permit Sun Graphic, Inc.
1820 N.W. 21st Street
Pompano Beach, FL 33060

Dear Mr. Hanks:

Per our telephone conversation November 5, this letter addresses the request from Sun Graphic, Inc. to modify the preliminary permit determination for the air stripper permit.

The specific points that Sun Graphic Inc. requests be changed are as follows:

1. Page 5 of 6; Specific Condition 1 states that "the contaminated water flow to the air stripper column shall not exceed 18 gpm."

Eighteen (18) gpm is the projected flow rate to obtain required drawdown and capture of the groundwater plume. Flow rates may need to be adjusted (up or down) to capture the groundwater plume and comply with the requirements of Broward County Environmental Quality Control Board (BCEQCB). Thus, the flow rate could exceed, or be less than, 18 gpm.

2. Page 5 of 6; Specific Condition 2 states that "the concentration of toluene in the contaminated groundwater shall not exceed 170,000 ug/l."

The highest concentration measured at the site is 170,000 ug/l toluene. However, initial concentrations may be slightly lower or higher. As the enclosed data show, even if the concentrations of each parameter are doubled, the resulting air emissions are well below the no threat levels.

Mr. Willard Hanks November 7, 1990 Page Two

3. Page 6 of 6; Specific Condition 3. The maximum lbs/hr emissions need to be adjusted based on potentially higher flow rates and influent concentrations. The proposed maximum lbs/hr emissions are shown in Table 1. The proposed emissions, which are below the no threat levels are based on a flow rate of 50 gpm and the following influent cocentrations:

Toluene	370,000	ug/1
Benzene	276	ug/1
Ethylbenzene	966	ug/1
Xylenes	1,280	ug/1
MEK	56	ug/1

The enclosed data show that if the influent concentrations are doubled from the concentrations used in our July 24, 1990 submittal, <u>and</u> the flow is increased from 18 gpm to 50 gpm, the emissions are still below the no threat levels for all the compounds of concern. This example is a worst-case scenario. We believe that the conditions submitted in the July 24, 1990 application will be a more accurate scenario. However, to ensure that Sun Graphic, Inc. will be operating within the permit limits, we request that the Specific Conditions in the preliminary permit determination be modified as shown in Table 1. This will provide Sun Graphic, Inc. the necessary flexibility to operate the air stripper system.

Sun Graphic, Inc. also requests that the enclosed changes be made without resubmitting the permit so that the air stripper system can be installed as soon as possible to comply with BCEQCB.

Please call me if you have questions or need additional information. Thank you for your help in this matter.

Sincerely,

BAKER ENVIRONMENTAL ENGINEERING, INC.

Robert A. Baker, P.E.

Patricia Markey for

RAB/jda

Enclosure

xc: Norm Nichol

Dan Smolen Mary Smallwood Patricia Markey



Table 1. Requested Changes to Specific Conditions

Specific Condition 1. The flow to the air stripper column shall not cause the air stripper emissions to exceed the limits given in Specific Condition 3. The permittee shall check the flow rate to the column (stripper) at least once during each normal business day that the system is in operation.

Specific Condition 2. The concentration of toluene in the groundwater shall not cause the emissions from the air stripper to exceed the limits given in Specific Condition 3. During start-up, the influent and effluent from the air stripper shall be sampled for the BTEX compounds every 12 hours for 3 days by Methods 5030/8020 or other methods with the approval of the Department. Following start-up, the influent and effluent from the air stripper shall be monitored monthly for BTEX compounds.

Specific Condition 3. Based on the procedures described in the Department's October 20, 1987, memorandum titled Final Air Stripper Review Procedure, or other methods with prior approval of the Department, the emissions from the air stripper system shall not exceed:

Pollutant	Maximum <u>(lbs/hr)</u>	Emissions <u>TPY (Avg)</u>
Toluene	9.26	0.04
Benzene	0.007	0.0004
Ethyl Benzene	0.0242	0.0008
Xylene	0.0320	0.0004
MEK	0.0014	0.00004

NOTE: THESE CALCULATIONS ARE BASED UPON:

- 1) INCREASING THE HIGHEST CONCENTRATION FOUND IN GROUNDWATER SAMPLES BY 200%
- 2) INCREASING THE MASS FLOW RATE THROUGH THE SYSTEM BY A FACTOR OF 277 %
- 3) CUMULATIVE EFFECT OF ITEMS 1 AND 2 IS A 550 % INCREASE IN THE TOTAL EMISSIONS PER HOUR

INPUTS:			OUTPUTS:	
50 (ЭРМ		1892.5	LITERS/MIN
1060	ACFM		30.0	M3/MIN
	UG/L	MW	LB/HR	MG/M3
TOLUENE	370000	92.14	9.2640	23326.0
BENZENE	276	84.16	0.0069	17.4
ETHYLBE	966	116.25	0.0242	60.9
XYLENES	1280	106.17	0.0320	80.7
MEK	56	72.11	0.0014	3.5
r	· · · · · · · · · · · · · · · · · · ·	Experimental control of the control		144 1
REMOVAL	100 %			

SCREEN MODEL = 107.8 UG/M³ FOR 1 LB/HR OF POLLUTANT EMISSION RATE

MODEL CONVERSION FACTORS: 8-HOUR = 0.7

24-HOUR = 0.4 ANNUAL = 0.1

EXAMPLE CALCULATION

107.8 ug/m^3 x 9.26 lb/hr x 0.1 = 99.86 ug/m^3

	CAT		NO THREA	AT LEVELS		MODEL RESULTS ug/m^3		
		8-HOUR	24-HOUR	ANNUAL	8-HOUR	24-HOUR	ANNUAL	
TOLUENE	В	7500	1786	2000	699.1	399.5	99.9	
BENZENE	Α	30	71	0.12	0.5215	0.2980	0.0745	
ETHYLBENZENE	A	4350	1036	0	1.8251	1.0429	0.2607	
XYLENES	Α	4350	1036	300	2.4184	1.3819	0.3455	
MEK .	Α	5900	1405	80	0.1058	0.1058	0.1058	

^{*} BENZENE IS THE WORST CASE, IT REMAINS AT 60% OF THE NO-THREAT LEVEL.

6821 S.W. Archer Road Gainesville, FL 32608 TEL (904) 371-9451 FAX (904) 378-1500

RECEIVED

November 5, 1990 B-2254

NOV 7 1990

DER - BAQM

Office of the General Counsel
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: DER File No. AC 06-1B4651
In the Matter of an Application for Permit Sun Graphic, Inc.
1820 N.W. 21st Street
Pompano Beach, FL 33060

Dear Reader:

Sun Graphic, Inc. requests a 45 to 60-day extension to the 14 days required to petition for an administrative proceeding (hearing) filed pursuant to the provisions of Section 120.57, Florida Statutes, Sun Graphic, Inc..

Sun Graphic, Inc. applied on July 24, 1990 to the Department of Environmental Regulation (DER) for a permit to temporarily operate an air stripper for a groundwater remediation project at Sun's Pompano Beach facility. On October 26, 1990, the DER mailed its "Intent to Issue" to applicant, Sun Graphic, Inc. The DER's notice included a draft permit to be issued which applicant believes contains terms and conditions substantially affecting applicant's interests. Applicant, therefore, submits this petition to extend the time to file for an administrative hearing.

Applicant intends to negotiate with the DER for a final permit which applicant deems acceptable without going to an administrative hearing. Therefore, Sun Graphic requests an extension to file for an administrative hearing until January 1, 1991.

The name, address, and telephone number of Applicant-Petitioner are stated in the heading. The DER's Permit File No. is AC 06-184651 and the county in which the project is proposed in Broward County.

Applicant-Petitioner received notice of the DER's proposed action through mail delivery of its Intent to Issue posted October 26, 1990.

Applicant-Petitioner believes that its substantial interests are affected by the DER's proposed action. Certain terms and conditions of the draft permit may impose practical restraints on Applicant-Petitioner's ability to operate the groundwater remediation system without violating the law. Unless relief is granted in the form of modifications to the permit, which are described below, Applicant-Petitioner could be in violation of requirements imposed by Broward County Environmental Quality Control Board (BCEQCB) to

Office of the General Counsel November 2, 1990 Page Two

treat groundwater. The specific points of contention are described as follows:

1. Page 5 of 6; Specific Condition 1 states that "the contaminated water flow to the air stripper column shall not exceed 18 gpm."

Eighteen (18) gpm is the projected flow rate to obtain required drawdown and capture of the groundwater plume. Flow rates may need to be adjusted (up or down) to capture the groundwater plume and comply with the requirements of BCEQCB. Thus, the flow rate could exceed, or be less than, 18 gpm.

2. Page 5 of 6; Specific Condition 2 states that "the concentration of toluene in the contaminated groundwater shall not exceed 170,000 ug/1".

> 170,000 ug/l is the projected worst case scenario. However, initial concentrations may be below or slightly above this concentration.

Page 6 of 6; Specific Condition 3. The maximum lbs/hr emissions 3. need to be adjusted based on potentially higher flow rates and/or influent concentrations.

Sun Graphic, Inc. is submitting information to Mr. Willard Hanks of DER requesting the above changes to Specific Conditions 1,2 and 3 of the preliminary determination. This information shows that all emissions are below the no threat levels even at higher flow rates or higher influent concentrations.

Applicant-Petitioner respectfully requests a 45 to 60-day extension to the 14-day deadline for filing for an administrative hearing to resolve the contested points.

Sincerely,

BAKER ENVIRONMENTAL ENGINEERING, INC.

-untroll Mosky for Robert A. Baker, P.E.

RAB/jda

xc:

Willard Hanks Norm Nichol Dan Smolen Mary Smallwood Patricia Markey



SENDER: Complete items 1 and 2 when additional 3 and 4. Put your address in the "RETURN TO" Space on the reverse from being returned to you. The return receipt fee will provide the date of delivery. For additional fees the following services and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's additional services.	side. Failure to do this will prevent this card you the name of the person delivered to and s are available. Consult postmaster for fees
3. Article Addressed to: Norm Nichal, fres. Sun Praphic, Inc. 1820 NW 215+ St. Pompano, Beach, Fl 33660	Article Number Type of Service: Registered Insured Certified COD Express Mail Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Addressee X	Addressee's Address (ONLY if requested and fee paid)
PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815	DOMESTIC RETURN RECEIPT

P 280 742 397

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

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PS Form 3800, June 1985	Return Receipt showing to whom, Date, and Address of Delivery	
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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

October 26, 1990

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Norm Nichol, President Sun Graphic, Inc. 1820 Northwest 21st Street Pompano Beach, Florida 33060

Dear Mr. Nichol:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit to construct an air stripper tower system for contaminated groundwater at your existing lithographic blanket manufacturing plant in Pompano Beach, Broward County, Florida.

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

Sincerely,

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

CHF/WH/plm

Attachments

c: Isidore Goldman, SE District Gary Carlson, Broward Co. Mark Armentrout, USEPA Robert Baker, P.E. Don Elhenbeck, BWC

BEFORE THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of Applications for Permits by:

Sun Graphic, Inc. 1820 N.W. 21st Street Pompano Beach, Florida 33060 DER File No. AC 06-184651

INTENT TO ISSUE

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

The applicant, Sun Graphic, Inc., applied on August 3, 1990, to the Department of Environmental Regulation for a permit to construct an air stripper tower system to treat contaminated groundwater at the existing lithographic blanket manufacturing plant in Pompano Beach, Broward County, Florida.

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

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permits. The notice shall be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department, at the address specified within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

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

affected by the A person whose substantial interests are Department's proposed permitting decision may petition for administrative proceeding (hearing) in accordance with Section The petition Florida Statutes. must contain information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. to file a petition within this time period Failure 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, Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application(s) have the right to petition to become a party to the proceeding. requirements The petition must conform to the specified above and be filed (received) within publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such

person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.

Chief

Bureau of Air Regulation

Copies furnished to:

Isidore Goldman, SE District Gary Carlson, Broward Co. Mark Armentrout, USEPA Robert Baker, P.E. Don Elhenbeck, BWC

CERTIFICATE OF SERVICE

	Th	e ı	under	sign	ed du	ly o	desi	gnated	dep	outy c	lerk	here	e by	
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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.

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

Department of Environmental Regulation hereby gives notice of its intent to issue an air pollution construction permit (AC 06-184651) to Sun Graphic Inc., 1820 N.W. 21st St., Pompano The permit authorizes the installation of Beach, Florida 33060. an air stripper tower system to treat contaminated groundwater at their lithographic blanket manufacturing plant located at 1820 N.W. 21st St., Pompano Beach, Broward Co., Florida. The system will emit 0.04 TPY toluene and smaller quantities of benzene, ethyl benzene, xylene, MEK and other organic pollutants from the Best Available Control contaminated groundwater. Technology (BACT) and Lowest Achievable Emission Rate (LAER) determinations were not required. These emissions will not cause a violation of any ambient air quality standard or Prevention of Significant Deterioration (PSD) increment. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

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

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (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 Accordingly, designed to formulate agency action. Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the applications have the right to petition to become a party to the the requirements The petition must conform to proceeding. specified above and be filed (received) within 14 days publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

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

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

Department of Environmental Regulation Southeast District 1900 S. Congress Avenue, Suite A West Palm Beach, Florida 33406

Broward County Environmental Quality Control Board 621 South Andrews Avenue Fort Lauderdale, Florida 33310

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

Technical Evaluation and Preliminary Determination

Sun Graphic, Inc. Pompano Beach, Florida Broward County

Air Stripper Tower System for Contaminated Groundwater

Permit No. AC 06-184651

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

General Information

A. Applicant

Sun Graphic, Inc. 1820 Northwest 21st Street Pompano Beach, Florida 33060

B. Request

On August 3, 1990, Sun Graphic, Inc. submitted an application for permit to construct an air stripper tower system to treat contaminated ground water caused by leaking underground solvent (toluene) storage tanks at their existing lithographic blanket manufacturing plant (SIC 3069) located at 1820 Northwest 21st Street, Pompano Beach, Broward County, Florida. The UTM coordinates of this plant are Zone 17, 585.2 km E and 2904.3 km N. The application was considered complete on September 18, 1990, when additional information on the project (Baker Environmental Engineering, Inc. September 14, 1990, letter) was received by the Department.

C. Process

Contaminated water is pumped from the collection tank for the shallow wells at an 18 GPM rate to a 28.3 foot high air stripper (packed column). Air is blown into the bottom of the column at a 1,060 ACFM rate, flows up the column countercurrent to the contaminated water flow, and through a mist eliminator at the top of the column to the atmosphere. An estimated 99+% of the organic solvents in the contaminated water evaporate into the air stream and are discharged to the ambient air with the air. The treated water is discharged to the municipal sewer systems.

D. Emissions

Using the procedure outlined in the Department's October 20, 1987, memorandum, the applicant estimated the emissions and ambient air impact of the air stripper tower system. The emissions are shown in the following table:

Pollutant	PPB in Groundwater	Max. Emissions lbs/hr	Average Emissions TPY
Benzene	138	0.0012	0.0004
Ethyl Benzene	483	0.0044	0.0008
Toluene	170,000	1.532	0.04
Xylene	640	0.0058	0.0004
MEK	28	0.0003	0.00004

II. Rule Applicability

The proposed project, construction of a groundwater air stripper tower system, is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code (F.A.C.).

The plant is in an area designated nonattainment for ozone (F.A.C. Rule 17-2.410) and attainment for the other criteria pollutants (F.A.C. Rule 17-2.420).

The facility is a major source of volatile organic compounds (VOC). The proposed project is not subject to the preconstruction review requirements of F.A.C. Rule 17-2.510, New Source Review for Nonattainment Areas, because the proposed project will not result in a significant net emissions increase of VOC (F.A.C Chapter 17-2, Table 500-2).

The project is subject to F.A.C. Rule 17-2.520 which pertains to sources not subject to prevention of significant deterioration or nonattainment review. There is no applicable reasonably available control technology standard for this operation. The source shall comply with F.A.C. Rule 17-2.620(1) and (2), General Pollutant Emission Limiting Standards. The allowable VOC emissions will be set at the rates estimated by the applicant. Higher emissions could subject the project to additional regulations.

III. Technical Evaluation

Based on the Department's October 20, 1987, memorandum on air stripper operations, air stripper towers typically remove 95-99% of the VOC from the contaminated water. From an analysis of the contaminated water and its volumetric flow through the the BTEX emissions were estimated for the proposed tower, The maximum concentration of these pollutants in the source. ambient air, knowing the emissions and stack parameters, can be estimated using EPA's Screening Model. From the TLV values for the specific pollutants, an acceptable ambient air concentration for each pollutant can be determined. These calculations were done for the proposed project and the results show the impact from this source will be well below the acceptable ambient air standards.

IV. Ambient Air Impact

Based on the modeled impact of the estimated emissions of the BTEX compounds from the proposed source, the operation of the air stripper tower system will not create a health hazard or cause/contribute to an ambient air quality violation.

V. Conclusion

Based on the information provided by Sun Graphic, Inc., the Department has reasonable assurance that the proposed construction/installation of air stripper tower system, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.





Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE: Sun Graphic, Inc. 1820 NW 21st Street Pompano Beach, Florida 3306 Permit Number: AC 06-184651 Expiration Date: March 1, 1991

County: Broward

33060 Latitude/Longitude: 26°15'26"N

80°08'49"W

Project: Air Stripper Tower

System

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

For the construction of a 99+% efficient contaminated ground water air stripper system consisting of a shallow well, collection tank, tower feed pump (18 GPM flow), 28.3 ft. (min) high air stripper tower (1.5 ft. diameter packed column containing 22 ft. of packing), mist eliminator, air blower (1,060 ACFM), and a biocide feeder. The air stripper system will be located at the permittee's existing lithographic blanket manufactuirng plant in Pompano Beach, Broward County, Florida.

The UTM coordinates of this site are Zone 17, 585.2 km E and 2904.3 km N.

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

Attachments are listed below:

- 1. DER letter dated August 23, 1990.
- 2. Baker Enviro. Eng. letter dated September 18, 1990.

Permit Number: AC 06-184651 Expiration Date: March 1, 1991

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

Permit Number: AC 06-184651
Expiration Date: March 1, 1991

GENERAL CONDITIONS:

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

- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
 - a. Have access to and copy any records that must be kept under the conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

PERMITTEE:
Sun Graphic, Inc.

Permit Number: AC 06-184651 Expiration Date: March 1, 1991

GENERAL CONDITIONS:

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

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- 11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- 12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
- 13. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and

PERMITTEE: Sun Graphic, Inc. Permit Number: AC 06-184651 Expiration Date: March 1, 1991

GENERAL CONDITIONS:

records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the dates analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 14. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

- 1. The contaminated water flow to the air stripper column shall not exceed 18 GPM. The permittee shall check the flow rate to the column (stripper) at least once during each normal business day that the system is in operation.
- 2. The concentration of toluene in the contaminated ground water shall not exceed 170,000 ug/l. During start-up, the influent and effluent from the air stripper shall be sampled for the BTEX compounds every 12 hours for 3 days by Methods 5030/8020 or other methods with the approval of the Department. Following start-up, the influent and effluent from the air stripper shall be monitored monthly for BTEX compounds.
- 3. Based on the procedures described in the Department's October 20, 1987, memorandum titled Final Air Stripper Review Procedure, or other methods with prior approval of the Department, the emissions from the air stripper system shall not exceed:

PERMITTEE: Sun Graphic, Inc. Permit Number: AC 06-184651 Expiration Date: March 1, 1991

SPECIFIC CONDITIONS:

Pollutant	Maximum lbs/hr	Emissions TPY (Avg)*
Toluene	1.532	0.04
Benzene	0.0012	0.0004
Ethyl Benzene	0.004	0.0008
Xylene	0.0058	0.0004
MEK	0.0003	0,00004

^{*} Excludes initial 3 month operation.

The Department may require analysis of the ground water for any suspected compound it has good reason to believe is being emitted in excess of the quantities listed in the application.

- 4. The air stripper system may operate continuously, 8760 hrs/yr.
- 5. The air stripper column system shall not discharge air pollutants in quantities that cause or contribute to objectionable odors.
- 6. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
- 7. An application for an operation permit must be submitted to the Southeast District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rule 17-4.220).

Issued	this	 day
of		 1990

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

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

SUNGRAPHIC INC. PRINTING PRESS BLANKET MFG.



1820 Northwest 21st Street • Pompano Beach, Florida 33069 Phone (305) 974-0217 - 974-0218

October 8, 1990

RECEIVED

OCT 9 1990

Mr. Willard Hanks
Bureau of Air Quality
State of Florida

DER - BAQM

Department of Environmental Regulation

FAX 904/487-4938

Dear Mr. Hanks:

Attached is our Application to Construct Air Pollution Sources, per Robert A. Baker, P.E., Baker Environmental Engineering, Inc.

SUN GRAPHIC, INC.

Norman J. Nichol

President

cc: R. A. Baker

- Ec

B-2254

Revised 9/14/90

P.02.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION



APPLICATION TO COMPETE	CONSTRUCT AIR POLLUTION SOURCES
SOURCE TYPE: Air Stripper	[X] New ¹ [] Existing ¹
APPLICATION TYPE: [X] Construction. []	Operation [] Modification
COMPANY NAME: Sun Graphic, Inc.	COUNTY: Broward
	e(s) addressed in this application (i.e. Lime Air Stripper for
Kiln No. 4 with Venturi Scrubber; Peaking SOURCE LOCATION: Street 1820 N.W. 21s	st Street CityPompano Beach
UTM: East (17) 585.2	200 km North 2904.300 km '
Latitude 26 15 26 APPLICANT NAME AND TITLE: Norm Nichol	N Longitude 80 * 08 ' 49 "W President
APPLICANT ADDRESS: Same as above	re
SECTION 1: STATEMENT	S BY APPLICANT AND ENGINEER
A. APPLICANT	
I am the undersigned owner or authoriz	ed representative* of Sun Graphic, Inc.
permit are true, correct and complete I agree to maintain and operate the facilities in such a manner as to co Statutes, and all the rules and regula also understand that a permit, if gra	this application for a Construction to the best of my knowledge and belief. Further pollution control source and pollution contromply with the provision of Chapter 403, Florid tions of the department and revisions thereof. Intending the department, will be non-transferable ent upon sale or legal transfer of the permitter.
*Attach letter of authorization	Norm Nichol, President Name and Title (Please Type) Date: /0/8/9DTelephone No. 305/974-0217
n AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	OPTOA (chara required by Chapter (71 F S)

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

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

DER Form 17-1.202(1) Effective October 31, 1982



6821 S.W. Archer Road Gainesville, FL 32608 TEL (904) 371-9451 FAX (904) 378-1500

September 14, 1990 B-2254

RECEIVED

SEP 17 1990

DER - BAQM

Mr. Clair H. Fancy Chief, Bureau of Air Regulation Florida Department of Environmental Regulation 2600 Blair Stone Road Tallahassee, Florida 32399-2400

RE: File No. AC 06-184651, Groundwater Air Stripper

Dear Mr. Fancy:

This letter responds to your request for additional information in your letter dated August 23, 1990, to Mr. Norm Nichol of Sun Graphic, Inc.

Question 1. How much MEK is in the contaminated groundwater?

Response: MEK was detected in two of thirteen wells at low concentrations [28 micrograms per liter (ug/l) and 15 ug/l]. MEK has not been detected in either well above the detection limit in subsequent

samples (see Table 1).

Question 2. Has the leaking underground storage tank handled other solvents besides toluene? If

so, what is their concentration in the groundwater?

Response: The leaking underground storage tank did not handle other

solvents besides toluene. Small traces of benzene, xylene, and ethylbenzene, impurities in toluene have been detected in the groundwater. In the most recent sampling, benzene was detected in one well at 8 ug/l. Ethylbenzene and xylene were detected at

5 and 7 ug/l, respectively, in only one well (see Table 1).

Question 3. How were the maximum and average concentrations of the BTEX compounds in the

contaminated groundwater determined?

Response: In the enclosed revised application, maximum concentrations of

the BTEX's were determined using the worst case results to represent a worst-case scenario (see Table 1). It is expected that after 3 to 6 months, after the initial slug of contaminants has passed, that the average case will be occurring. The

concentrations in the influent to the air stripper will also be diluted by combining groundwater from the most contaminated areas

with groundwater from less contaminated areas at the site.

Letter to Mr. Clair H. Fancy September 14, 1990 Page 2

Question 4. How will Sun Graphic, Inc. monitor the groundwater being treated in the air stripper?

Response: During start-up, the influent and effluent from the air stripper will be sampled for the BTEX compounds every 12 hours for 72 hours. Following start-up, the influent and effluent from the air stripper will be monitored monthly for BTEX compounds.

I am submitting revised copies of the original applications to clarify the worst case BTEX concentrations as indicated in Table 1, the inclusion of MEK data, corrections to some typographical errors and changes in some of the text that reflect the new calculations.

The air stripper is an essential part of a remedial action schedule that is subject to state and county enforcements actions if the stripper is not operational by late October. Therefore, speedy action on this application is requested.

I hope the above has addressed your concerns. Please contact me if you have any questions or need additional information.

Sincerely,

BAKER ENVIRONMENTAL ENGINEERING, INC.

Robert A. Baker

RAB:jda

BEE-90.4[WP]RAB9-14

xc: Dan Smolen
Norm Nichol
Daniela Bann - BCEQCB
Dr. H. Schneider - BCQCB
Williard Hanks - FDER



TABLE 1 SUN GRAPHICS GROUNDWATER ORGANICS DATA

Monitor Well (KW #)-Date	Benzene (ug/l)	Toluene (ug/l)	Ethyl Benzene (ug/1)	Xylene (ug/l)	MEK (ug/1)	COD (mg/l)	Total Phenol (mg/l)
MW-1: 5/4/87	< 1	6.8	〈 1	< 1	₩Aŧ	NA	NA
7/20/87	< 1	< 1	〈 1	4.9	NA	NA	NA
5/1/88	3.1	< 1	< 1	1.8	КA	40	NA
7/27/88	(1)	< 1	1.7	21	< 50	NA	0.003
8/18/88	8	< 1	5	7	NA	NA	NA
HW-2: 2/9/87	NA	NA	NA	NA	NA	147	0.67
3/11/87	138	960	483	189	NA	NA	NA
5/4/87	13.2	1,718	48.3	112.5	NA	AА	NA
7/20/87	5.5	6,700	26.1	125	NA	NA ·	NA
5/1/88	63	150,000	150	600	28	260	6.00
5/1/88 (Dupl.)	65	170,000	140	640	25	250	4.80
7/27/88##	√ 1	(1	(1	3	< 50	NA	1.16
8/18/88	⟨ 20	82,000	₹ 20	137	NA	NA	NA
	A = .		5 4	17.6	NA	NA	NA
NW-3: 5/4/87	2.74	44.8	5.1	17.5		NA NA	NA NA
7/20/87	12.0	6,700	29.9	98.4	NA	100	0.64
5/1/88	10.0	29,000	38	130	10	NA NA	0.083
7/27/88##	8	(1	11	131	< 50	NA NA	V. V63 NA
8/18/88	< 20	16,000	< 20	< 20	NA	RA.	na
MW-4: 3/11/87	NA	NA	NA	NA	< 25	NA	NA
5/4/87	. (1	16.7	< 1	< 1	₹ 25	NA	NA
7/20/87	< 1	42.1	< 1	< 1	NA	, NA	NA
5/1/88	< 1	< 1	< 1	< 1	< 10	64	0.01
8/11/88	< 1	< 1	< 1	〈 1	NA	NA	NA
NW-5: 5/1/88	< 1	< 1	〈 1	< 1	< 10	70	0.01
8/11/88	⟨ 1	(1	(1	(1	NA	NA	NA
0/11/00	\ 1	\ 1	(1		•••	****	••••
KW-6: 5/1/88	< 1	< 1	〈 1	< 1	< 10	62	0.01
8/18/88	< 1	3.9	< 1	(1	NA	NA	NA
NW-7: 5/1/88	< 1	5	21	18	15	150	0.01
7/27/88	< 1	< 1	< 1	⟨ 1	< 50	NA	0.004
8/18/88	₹ 20	1,200	₹ 20	⟨ 20	NA	NA	NA
WII D. 5/1/00			, ,	〈 1	< 10	70	0.01
KW-8: 5/1/88 8/19/88	< 1 < 1	〈 1 3	< 1 < 1	(1	- NA	NA	NA
					/ 14	nc	0.01
NW-9: 5/1/88	(1	(1	< 1	(1	· (10	35 114	NA
8/19/88	< 1	< 1	< 1	< 1	NA	NA	NH.

\$595.50E

TABLE 1.2-1 (CONTINUED)

		Toluene (ug/l)	Ethyl Benzene (ug/1)	Xylene (ug/l)	MEK (ug/l)	COD (mg/l)	Total Phenol: (mg/l)
NW-10: 5/1/88	(1	250	〈 <u>i</u>	~ (1)	(10	54	0.02
5/1/88 (Dupl.)	(1	130	(1	(1	⟨ 10	28	0.02
6/7/88	(1	(1	(1	(1	< 10	72	⟨.01
7/27/88	〈 1	< 1	< 1	< 1	< 50	NA	0.003
8/18/88	< 20	⟨ 20	< 20	< 20	NA	NA	NA
KW-11: 6/7/88	5.8	8	6	77	< 10	200	<.01
7/27/88	〈 1	〈 1	< 1	7 .	< 50	NA	0.034
MW-12: 6/7/88	(1	⟨1	< 1	〈 1	< 10	180	<.01
7/27/88	〈 1	< 1	< 1	〈 1	< 50 ´	NA	0.007
MW-13D: 6/7/88	13	1.5	` { 1	28	< 10	60	⟨.01
6/7/88 (Dupl.)	12	1.1	〈 1	26	< 10	53	<.01
8/18/88	< 1	< 1	1 >	(1	KA	KA	NA

[₹] NA - Not Analyzed

^{** 7/27/88 -} Review of the mass spectra from the BTX analyses for MW-2 and MW-3 indicate thée data are incorrect.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION



APPLICATION TO CHEEKATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Air Stripper	[X] Newl	[] Exi	sting ¹			
APPLICATION TYPE: [X] Construction. []	Operation [] h	Modificat	tion			
COMPANY NAME: Sun Graphic, Inc.			COUNTY: Broward			
Identify the specific emission point source Kiln No. 4 with Venturi Scrubber; Peaking			Air Stripper for			
SOURCE LOCATION: Street 1820 N.W. 21:			groundwater CityPompano Beach			
UTM: East (17) 585.	200 km	North_	2904.300 km '			
Latitude 26 ° 15 ' 20 APPLICANT NAME AND TITLE: Norm Nichol		Longit	ide <u>80 ° 08 ' 49 "</u> W			
APPLICANT ADDRESS: same as above	•					
SECTION 1: STATEMENT	S BY APPLICANT	AND ENG	INKER			
A. APPLICANT						
I am the undersigned owner or authoriz	ed representati	ve* of	Sun Graphic, Inc.			
I certify that the statements made in permit are true, correct and complete I agree to maintain and operate the facilities in such a manner as to constatutes, and all the rules and regular also understand that a permit, if graying and I will promptly notify the departmentablishment.	to the best of pollution containing with the tions of the dented by the deg	my knowl rol sou provisio partment partment	edge and belief. Further ree and pollution control of Chapter 403, Florid and revisions thereof. will be non-transferabl			
*Attach letter of authorization	Signed:					
	Norm Nichol, President Name and Title (Please Type)					
-	Date:	Telep	hone No. 305/974-0217			
B. PROFESSIONAL ENGINEER REGISTERED IN FL	ORIDA (where re	quired b	y Chapter 471, F.S.)			

principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, the

DER Form 17-1.202(1) Effective October 31, 1982

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

	an offluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will function of the department.
	furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.
	Signed Colut Ab Salian .
	Robert A. Baker
	Name (Please Type)
	Baker Environmental Engineering, Inc
	6821 S.W. Archer Road, Gainesville, FL''32608
	Hailing Address (Please Type)
Flo	orids Registration No. 21118 Date: 9/14/90 Telephone No. 904/371-9451
	SECTION II: GENERAL PROJECT INFORMATION
Α.	Deacribe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.
	Installation of an air stripping system for recovery and decontamination of
	groundwater. The system will have a pumping rate of approximately 18 gpm and
	will be removing toluene.
В.	Schedule of project covered in this application (Construction Permit Application Only)
	Start of Construction September 1990 Completion of Construction October 1990
C.	Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on sctual costs shall be furnished with the application for operation permit.)
	\$20,000(+) for air stripper
	• .
٠	
).	Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.
	None
DF R	Form 17-1 202(1)

if 	power plant, hrs/yr; if seasonal, describe:	
	this is a new source or major modification, answer the following quest	ilons.
1.	Is this source in a non-attainment area for a particular pollutant?	YES
	a. If yes, has "offset" been applied?	иò
	b. If yes, has "Lowest Achievable Emission Rate" been applied?	NO
	c. If yes, list non-attainment pollutants. OZONE	
2.	Does best available control technology (BACT) apply to this source? If yea, see Section VI.	NO
3.	Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yes, see Sections VI and VII.	NO
4.	Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?	NO
5.	Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	NO
	"Reasonably Available Control Technology" (RACT) requirements apply this source?	NO

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

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

- Broward County is a non-attainment area for oxidants (ozone).
 The modification will contribute less than 4 tons per year of VOC's, therefore offsets and LAER are not applicable.
- 2. BACT is not applicable to the source since it is in a non-attainment area.

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

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

	Contar	inants	Utilization	-	
Description	Type	# ¥t	Rate - lbe/hr	Rolate to Flow Diagram	
Groundwater	VOC	0.02 %	1.5	See Figure 1	
	•				
	ر			•	

8.	613	cess Rate, if applicable:	(See Section V,	Item 1)	
	1.	Total Process Input Rate	(lbs/hr):	N/A	
	2.	Product Weight (lbs/hr):		N/A	

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

Name of	Emission ¹ *	Allowed ² Emission Rate per	Allowable ³ Emission	Potential ⁴ Emission		Relate to Flow
Conteminant	Haximum Actual lbs/hr T/yr	Rule 17-2	lbs/hr	lbs/hr	T/yr	Diagram
Toluene	0.009 0.039	N/A	N/A	0.009	0.039	
Benzene (.00009 0.0003	N/A	N/A	0.00009	0.00039	
Ethyl Benzene	0.00018 .0007	9 N/A	N/A	0.00018	0.00079	
Xylene	0.00009 .0003	N/A	N/A	0.00009	0.00039	
MEK	0.000009 0.000	039 N/A	N/A	0.000009	0.000039	

1 See Section V, Item 2. *Emissions based on expected maximums after the first 3 months of puming.

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

³Calculated from operating rate and applicable atandard.

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

Name and Type (Hodel & Serial No.)	· Conteminant		Efficiency		Range of Particles Size Collected (in microns) (If applicable)		Basis for Efficience (Section of Item 5)
	- · -	,			•	·	
						· · · · · · · · · · · · · · · · · · ·	
			,				
						,	
E. Fuels N/A							
Type (Bo Secrific)			Consu	ption*			
Type (Be Specific)	avg/hr		max./hr		x./hr	Maximum Heat Ing	
		<u>.</u>		!			
							· wa
*Units: Natural GasHMC	F/br	· Fuel Oils	-call	ans/br: Co	al vood	refuse other	rlhg/hr
Fuel Analysis:	. ,	,	guzz	011071127	,41, 4004,	tordoo, ocho	1037 112.
Percent Sulfur:				Percent	Ash.		
Density:						,	
Heat Capacity:							
Other Fuel Conteminants							
				,	·		
F. If applicable, indic	ato !	the percent	af fu	el used fo	r space h	eating. N/A	
Annual Average			н	aximum			
G. Indicate liquid or s	olid	westes gene	rated	and metho	d of disp	osal.	
						rged to the s	

tack Heig	ght:	·	•	ft.	Sta	ck Diamet	er:	
ater Vapo	or Content:	***************************************		%	Vol	acity: _		
		SECT		INCINE Not App		INFORMAT ble	ION -	
Type of Waste	, ,,	Type I (Rubbish)						Type VI s (Solid By-pro
Actual lb/hr nciner- ated								
Uncon- tralled lbs/hr)								
tal Weig		ted (1bs/hz	.)					/hr)
tal Weig	ht Incinera	ted (1bs/hz	e)	per da	y	day,		
tal Weig proximat	ht Incinera e Number of	ted (1bs/hz	peration	per da	у	day,	'wk	/hr)wks/yr
tal Weig proximat	ht Incinera e Number of	ted (1bs/hz	peration	. Hode	ol No	day,	'wk	wks/yr
tal Weig proximat nufacture te Const	ht Incinera	ted (lbs/hz	Poeration	. Hode	ol No	day,	'wk	Wks/yr
tal Weig proximat nufacture te Const	ht Incinera	ted (lbs/hz	Poeration	. Hode	ol No	day,	'wk	Wks/yr
tal Weig proximat nufacture te Consta	ht Incinera e Number of er	Hours of C	Heat Re	Hode	y	fue)	BTU/hr	Wks/yr
tal Weig proximat nufacture te Consta rimary Ch econdary	ht Incineral e Number of er ructed namber Chamber	Volume (ft)3	Heat Re (BTU/	Hode	y	Fue)	BTU/hr Stack 1	Temperature (°F)
tal Weig proximat nufacture te Consti te Consti cimary Ch econdary ack Heigh a Flow Re	ht Incineral Number of er ructed Chamber nt:	Volume (ft) 3	Heat Re (BTU/	Hode lease hr) ter:	y	Fue)	Stack 1	Temperature (°F)
tal Weigi proximat nufacture te Constr rimary Ch econdary ack Heigh s Flow Re f SO or a	namber Chamber tte:	Volume (ft)3 ft. S r day desis s correcte	Heat Re (BTU/ tack Diam ACFH gn capacid	Modellease thr)	Ty	Fuel pe DSCFH*	Stack Nolocity:	Temperature (°F)

Briof des	cription	o f	oper	ating ch	aracte	risti	cs of	control	devi	ce8:			
								·			•		
													
Ultimato ash, etc.	disposal):	o f	any o	offluont	other	than	thet	omittod	from	the	stack	(scrubber	water,
							·				·		
			•										

SECTION V: SUPPLEHENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

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

- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Hethods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- 3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
- 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9.	The appropriate application fee in accommade payable to the Department of Envir	ordance with Rule 17-4.05. The check should be onmental Regulation.
10.	With an application for operation perm struction indicating that the source permit.	it, attach a Certificate of Completion of Con- was constructed as shown in the construction
	SECTION VI: BEST AVA	ILABLE CONTROL TECHNOLOGY
Α.	Are standards of performance for new stapplicable to the source?	ationary sources pursuant to 40 C.F.R. Part 60
	[] Yes [] No	
	Contaminant	Rate or Concentration
		
8.	Has EPA declared the best available coryes, attach copy)	ntrol technology for this class of sources (If
	[] Yes [] No .	
	Contaminant	Rate or Concentration
С.	What emission levels do you propose as b	est available control technology?
\$	Contaminant	Rate or Concentration
	· · · · · · · · · · · · · · · · · · ·	
٠.	Describe the existing control and treatm	ent technology (if any).
	l. Control Device/System:	2. Operating Principles:
	3. Efficiency:*	4. Capital Costs:
•Ехр	lain method of determining	

Page 8 of 12

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Effective November 30, 1982

		· •				
	5.	Usoful Life:		6.	Operating Costs:	
	7.	Energy:		8.	Haintenance Cost:	
	9.	Emissions:				
		Contaminant			Rate or Concentration	
				_		
				_	······································	
				·		
	10.	Stack Paramoters				
	a.	Height:	ft.	ь.	Diameter:	ft.
	c.	Flow Rate:	ACFH	d.	Temperatures	°F.
	٥.,	Velocity:	FPS			
٤.		cribe the control and treatmen additional pages if necessary		alag	y available (As many types as	applicable
			, •			
	1.		, -			
	_	Control Device:	, .	ь.	Operating Principles:	
	1.		, .	b.	Operating Principles: Capital Cost:	
	1. a.	Control Device:	, -			See
	1. a. c.	Control Device: Efficiency: 1	, -	d.	Capital Cost:	' let
	1. a. c.	Control Device: Efficiency: Useful Life:		d. f. h.	Capital Cost: Operating Cost: Haintenance Cost:	Per
	1. a. c. g.	Control Device: Efficiency: Useful Life: Energy: 2	astorial	d. f. h.	Capital Cost: Operating Cost: Haintenance Cost:	· Per
	1. a. c. g. i.	Control Device: Efficiency: Useful Life: Energy: Availability of construction manufacturing	astorial proces	d. f. h. s an	Capital Cost: Operating Cost: Haintenance Cost:	
	1. a. c. g. i.	Control Device: Efficiency: Useful Life: Energy: Availability of construction and Applicability to manufacturing Ability to construct with con	astorial proces	d. f. h. s an	Capital Cost: Operating Cost: Maintenance Cost: d process chemicals:	
	1. a. c. g. i. j.	Control Device: Efficiency: Useful Life: Energy: Availability of construction and Applicability to manufacturing Ability to construct with con	astorial proces	d. f. h. s an	Capital Cost: Operating Cost: Maintenance Cost: d process chemicals:	
	1. a. c. g. j. k.	Control Device: Efficiency: Useful Life: Energy: Availability of construction and Applicability to manufacturing Ability to construct with conwithin proposed levels:	astorial proces	d. f. h. s an ses:	Capital Cost: Operating Cost: Haintenance Cost: d process chemicals: , install in available space, a	
	1. a. c. g. j. k.	Control Device: Efficiency: Useful Life: Energy: Availability of construction and Applicability to manufacturing Ability to construct with conwithin proposed levels: Control Device:	astorial proces	d. f. h. s an ses: vice	Capital Cost: Operating Cost: Haintenance Cost: d process chemicals: , install in available space, a	
	1. a. c. g. j. k. 2.	Control Device: Efficiency: Useful Life: Energy: Availability of construction and Applicability to manufacturing Ability to construct with conviction proposed levels: Control Device: Efficiency: Control Device:	astorial proces	d. f. s an ses: vice b. d. f.	Capital Cost: Operating Cost: Haintenance Cost: d process chemicals: , install in available space, a Operating Principles: Capital Cost:	

.

j	. Applicability to manufacturing proc	09809;
k.	 Ability to construct with control within proposed levels: 	dovice, install in available space, and operate
3.		•
8.	. Control Device:	b. Operating Principles:
c.	. Efficiency: 1	d. Capital Cost:
е.	. Useful Life:	f. Operating Cost:
9 -	. Energy: ²	h. Haintenance Cost:
1.	. Availability of construction materia	als and process chemicals:
j.	. Applicability to manufacturing proce	28828:
k.	. Ability to construct with control of within proposed levels:	sevice, install in available space, and operate
4.		
a.	Control Device:	b. Operating Principles:
c.	Efficiency: 1	d. Capital Costs:
e.	Usoful Lifo:	f. Operating Cost:
9•	Energy: ²	h. Haintenance Cost:
í.	Availability of construction materia	ls and process chemicals:
j.	Applicability to manufacturing proce	នន់ចំន:
k.	Ability to construct with control d within proposed levels:	evice, install in svailable space, and operate
F. Do	scribe the control technology selected	•
. 1.	Control Device:	2. Efficiency: 1
3.	Capital Cost:	4. Useful Life:
5.	Operating Coat:	6. Energy: ²
7.	Maintenance Cost:	8. Hanufacturer:
9.	Other locations where employed on si	milar proceases:
a.	(1) Company:	-
(2)) Mailing Address:	
(3)) City:	(4) State:
lExplai ² Energy	in method of determining efficiency. y to be reported in unita of electrica:	l power – KWH design rate.
	rm 17-1.202(1) Ive November 30, 1982 Page	10 of 12

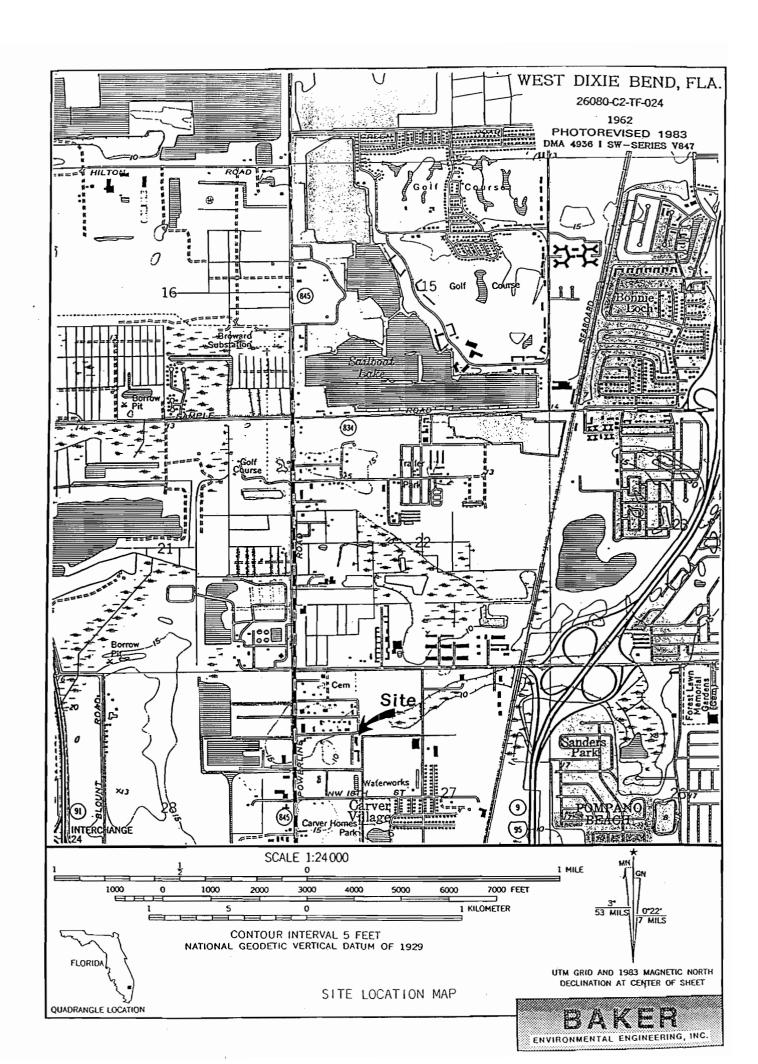
	(5) Environmental Han	ager:				
	(6) Telephane No.:					
	(7) Emissions:1					
	Contamina	nt		Rate or Concen	tration	
						
_						_
	·					_
	(8) Process Rate: 1					
	b. (1) Company:					
	(2) Hailing Addreas:					
	(3) City:		(4) State:			
	(5) Environmental Man	ager:				
	(6) Telaphona No.:					
	(7) Emissions:1					
	Contamine	nt		Rate or Concent	tration	
			<u> </u>			
	(8) Process Rate: 1		•			
	10. Reason for selecti	ion and description	of systems:			
	plicant must provide th silable, applicant must			Should this	information not	8
	SECTION	VII - PREVENTION O	F SIGNIFICANT	DETERIORATION		
Α.	Company Honitored Data	Not Appl	icable			
	1no. sites	TSP	()	S0 ² *	Wind spd/dir	
	Period of Honitoring	/	/ to	month day y		
		month d	ау уеаг	month day y	ear	
	Other data recorded					_
	Attach all data or stat	istical summaries	to this appli	cation.	:	
*Sp	ecify bubbler (8) ar can	tinuaus (C).				
	Form 17-1.202(1) ective November 30, 1982	Page	11 of 12			

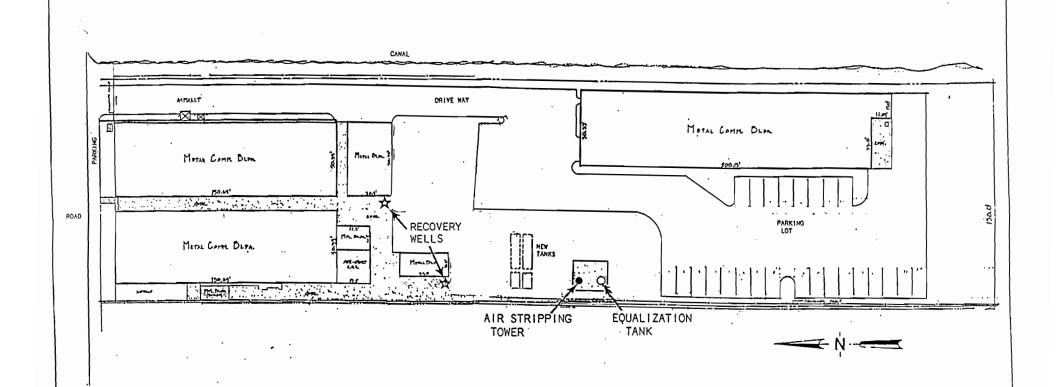
	2. Institutentatio	i, Fleid and Caboracory
	a. Was instrument	ation EPA referenced or its equivalent? [] Yes [] No
	b. Was instrument	ation calibrated in accordance with Department procedures?
	[] Yes [] N	o [] Unknown
8.	Meteorological Dat	used for Air Quality Hodeling
	1 Year(s)	of data from / / to / / month day year
	2. Surface data o	tained from (location)
	 Upper air (mix 	ng height) data obtained from (location)
	4. Stability wind	rose (STAR) data obtained from (location)
г.	Computer Hodels Us	a
	1.	Hodified? If yes, attach description.
	2.	Hodified? If yes, attach description.
	3.	Hodified? If yes, attach description.
	4	Hodified? If yes, attach description.
	Attach copies of all ciple output tables	l final model runs showing input data, receptor locations, and prin-
٥.	Applicants Haximum	Allowable Emission Data
	Pollutent	Emission Rate
	TSP	grams/sec
	502	grams/sec
€.	Emission Data Used	·
\$		sion sources. Emission data required is source name, description of DS point number), UTH coordinates, stack data, allowable emissions, g time.
F.	Attach all other in	formation supportive to the PSD review.
G.	ble technologies (and economic impact of the selected technology versus other application, jobs, payroll, production, taxes, energy, etc.). Include avironmental impact of the sources.

the requested best available control technology.

Attach scientific, engineering, and technical material, reports, publications, jour-nals, and other competent relevant information describing the theory and application of

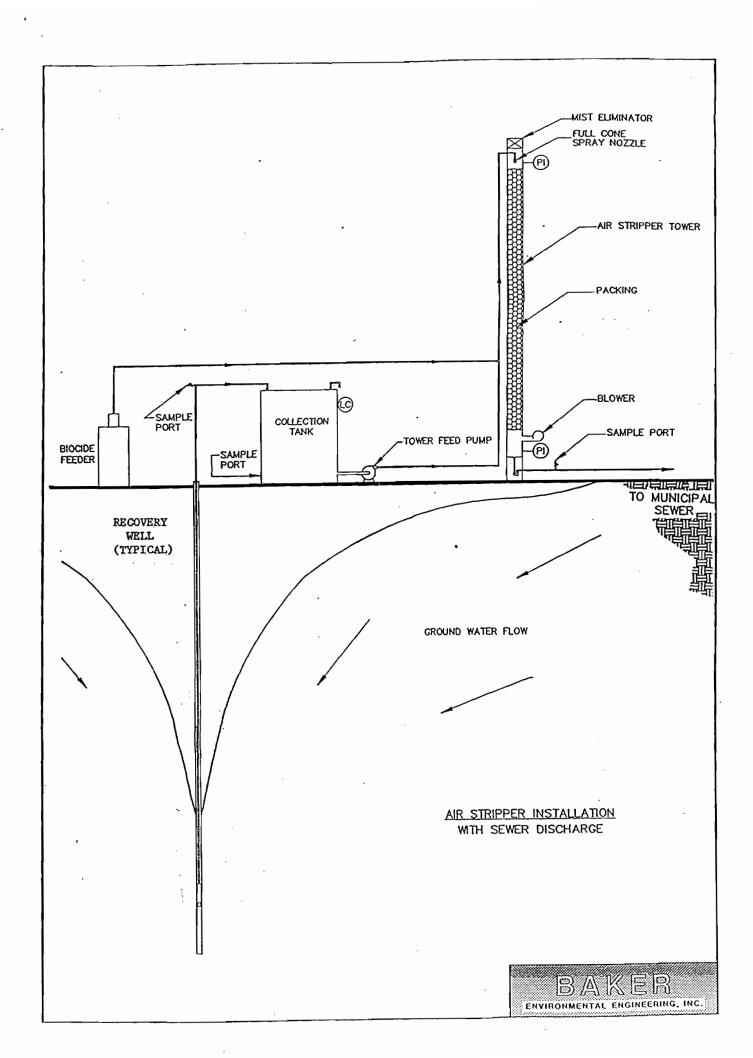
SITE LOCATION and PLOT PLAN

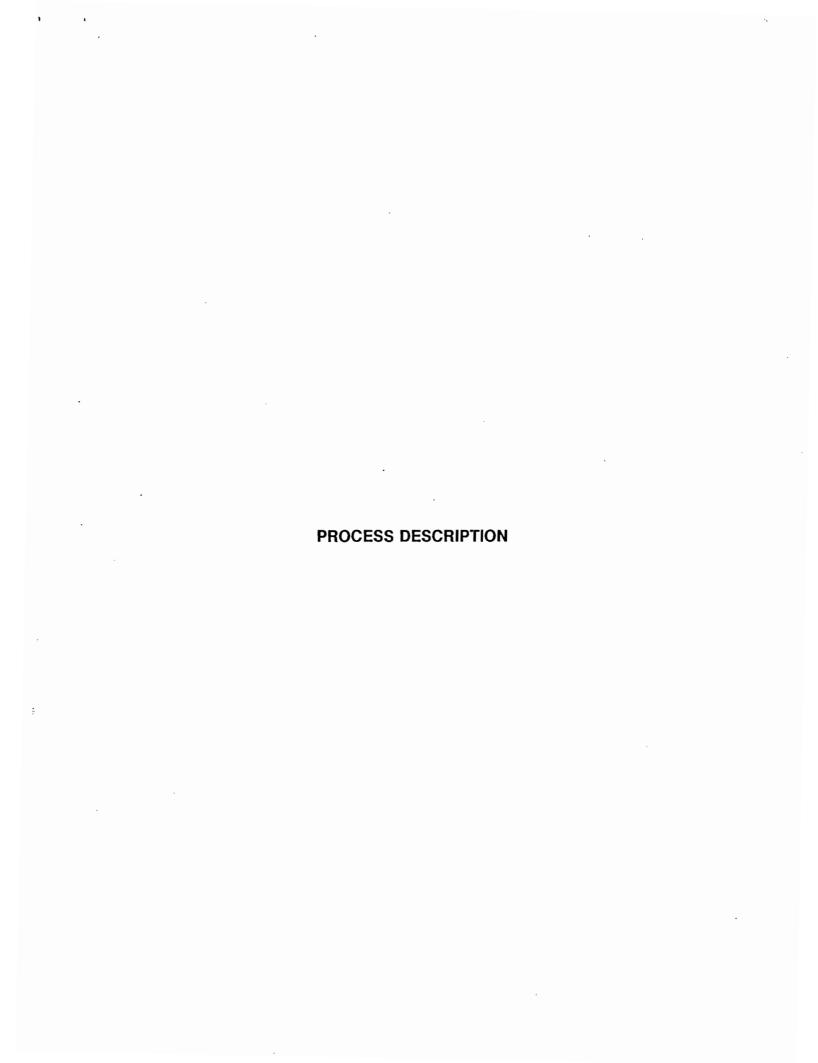




REMEDIATION EQUIPMENT LOCATION







PROCESS DESCRIPTION

<u>Overview</u>

Sun Graphic, Inc. (SGI) plans to operate a groundwater remediation system (air stripper) to recover a past release of toluene from underground storage tanks. The groundwater contamination has the following characteristics:

	Maximum Concentration	Average Concentration
<u>Parameter</u>	(ug/l)	(ug/l)
Toluene	170,000	<1,000
Benzene	138	<10
Ethyl Benzene	438	<20
Xylene	640	<10
MEK	28	<1

The air stripper will have the following characteristics:

Pumping Rate	18	GPM
Air Flow	1,060	ACFM
Airstripper Height	28.3	feet
Packing Height	22	feet
Diameter	1.5	feet
Operating Hours	8,760	hrs/year
Removal Efficiency	>999	b.

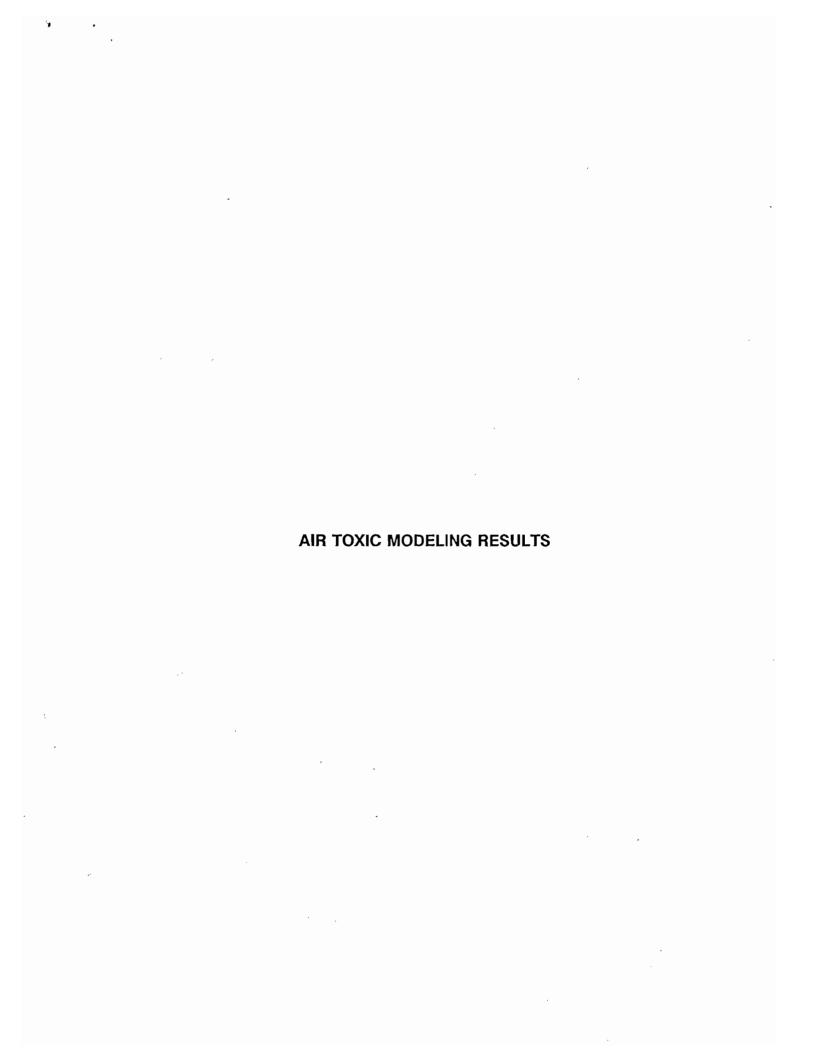
The air stripper is anticipated to be in operation over the next 5 years.

Air Emissions

The air emissions, assuming 100% stripping, are as follows:

	Maximu	ım	Avera	ıge
<u>Parameter</u>	(lb/hr)	(TPY)	(lb/hr)	(TPY)
Toluene	1.532	6.710	0.009	0.0390
Benzene	0.0012	0.005	0.00009	0.00039
Ethyl Benzene	0.0044	0.019	0.00018	0.00079
Xylene	0.0058	0.025	0.00009	0.00039
MEK	0.0003	0.001	0.000009	0.000039

It is expected that after 3 to 6 months the average case will be occurring due to the fact that, by this time, the initial slug of contaminants will have passed.



Air Toxics

In order to evaluate any toxic effect of specific compound, a Screen Drift Model was executed using a 1 lb/hr emission rate and the air stripper's characteristics. The maximum 1-hour concentration calculated by the model was 107.8 ug/m³. This result was then scaled for each contaminant and converted to an 8-hour, 24-hour, and annual concentration using the following EPA model conversion factor:

 $8-hour = 0.7 \times 1-hour$

24-hour = 0.4×1 -hour

Annual = 0.1×1 -hour

Table 2 summarizes these results. All four compounds were found to be within the calculated no threat levels.

TABLE 1
SUN GRAPHICS GROUNDHATER ORGANICS DATA

Monitor Well (MW #)-Date	Benzene (ug/l)	Toluene (ug/l)	Ethyl Benzene (ug/l)	Iylene (ug/l)	MEK (ug/1)	COD (@g/1)	Total Phenol (ag/l)
KW-1: 5/4/87	(1	6.8	(1	〈 1	NA t	NА	NA
7/20/87	< 1	< 1	< 1	4.9	NA	НA	NA :
5/1/88	3.1	< 1	(1	1.8	NA	40	NA
7/27/88	(1)	< 1	1.7	21	< 50	NA	0.003
8/18/88	8	< 1	5	7	ŅΑ	NA	NA
KW-2: 2/9/87	NA	NA	NA .	NA	NA	147	0.67
3/11/87	138	960	483	189	NA	NA	NA
5/4/87	13.2	1,718	48.3	112.5	NA	АЯ	NA
7/20/87	5.5	6,700	26.1	125	NA	NA	NA
5/1/88	63	150,000	150	600	28	260	6.00
5/1/88 (Dupl.)	65	170,000	140	640	25	250	4.80
7/27/88 f f	〈 1	< 1	(1	3	< 50	NA	1.16
8/18/88	< 20	82,000	< 20	137	MA	NA	NA
1W-3: 5/4/87	2.74	44.8	5.1	17.5	NA	NA	NA
7/20/87	12.0	6,700	29.9	98.4	NA	NA	NA
5/1/88	10.0	29,000	38	130	10	100	0.64
7/27/88##	8	·< 1	11	131	₹ 50	NA	0.083
8/18/88	< 20	16,000	₹ 20	₹ 20	NA	NA	NA
IW-4: 3/11/87	· NA	KA	KA	NA	(25	NA	NA
5/4/87	. (1	16.7	< 1	< 1	< 25	NA	NA
7/20/87	(1	42.1	< 1	< 1	NA	NA	NA
\$/1/88	< 1	< 1	(1	〈 1	< 10	64	0.01
8/11/88	< 1	< 1	< 1	〈 1	NA	KA	, NA
W-S: S/1/88	< 1	(1	< 1	(1	< 10	70	0.01
8/11/88	< 1	< 1	< 1	< 1	NA	NA	NA
W-6: S/1/88	< 1	(1	< 1	〈 1	< 10	62	0.01
8/18/88	< 1	3.9	< 1	〈 1	NA	NA	NA
W-7: S/1/88	(1	S	21	18	15	150	0.01
7/27/88	〈 1	< 1	〈 1	〈 1	< 50	NA	0.004
8/18/88	< 20	1,200	< 20	< 20	NA	MA	NA
W-8: 5/1/88	(1	(1	(1	〈 1	(10	70	0.01
8/19/88	(1	3	(1	(1	NA	NA	NA
W-9: 5/1/88	〈 1	(1	〈 1	(1 .	< 10	35	0.01
8/19/88	₹ 1	< 1	< 1	〈 1	NA	NA	NA

१८काराक्ष

TABLE 1.2-1 (CONTINUED)

Monitor Well (MW #)-Date	Benzene (ug/1)	Toluene (ug/l)	Ethyl Benzene (ug/l)	Xylene (ug/l)	HEK (ug/1)	COD (mg/l)	Total Phenol (mg/l)
WII 10 C11100	, ,	254		- (1		54	0.00
KW-10: S/1/88	(1	250	(1	• •	(10	28	0.02
5/1/86 (Dupl.)	(1	130	〈 1	(1	(10		0.02
6/7/88	(1	1 >	< 1	(1	< 10	72	(10.)
7/27/88	(1	< 1	(1	(1	₹ 50	NA	0.003
8/18/88	< 20	< 20	< 20	< 20	NA	NA	NA
MW-11: 6/7/88	5.8	8	6	77	< 10	200	⟨.01
7/27/88	〈 1	(1	< 1	7	< 50	KA	0.034
MW-12: 6/7/88	< 1	〈 1	〈 1	〈 1	⟨ 10	180	<.01
7/27/88	< 1	< 1	〈 1	〈 1	< 50 ´	NA	0.007
MW-13D: 6/7/88	13	1.5	(1	28	< 10	60	<.01
6/7/88 (Dupl.)	12	1.1	< 1	26	< 10	53	<.01
8/18/88	〈 1	(1	< 1	< 1	NA	NA	NA

[₹] NA - Not Analyzed

^{** 7/27/88 -} Review of the mass spectra from the BTX analyses for MW-2 and MW-3 indicate thée data are incorrect.

Table 2. Air Toxic Emissions, Sun Graphic, Inc. - Air Stripper

	CAT	No Threat Levels (ug/m³)			Model Results (uq/m³) *			
		8-hour	24-hour	Annual	8-hour	24-hour	Annual	
Toluene	В	7,500	1,786	2000	115.6	66.07	16.52	
Benzene	A	30	7.1	0.12	0.09	0.05	.013	
Ethyl Benzene	A	4,350	1,036		0.332	0.189	0.047	
Xylene	A	4,350	1,036	300	0.032	0.018	0.005	
MEK	A	5,900	1,405	80	0.023	0.013	0.003	

Notes:

* 17	120	ho	on	
~ _	as	шu	OII	ĕ

Toluene (lb/hr)	1.5323
Benzene (lb/hr)	0.0012
Ethyl Benzene (lb/hr)	0.0044
<pre>Xylene (lb/hr)</pre>	0.0058
MEK (lb/hr)	0.0003

Model conversion factors:

8-hour = 0.7 24-hour = 0.4 Annual = 0.1

(Note: Model results were maximum of 107.8 ug/m3 for 1 lb/hr).

Example:

Toluene annual level = $107.8 \text{ ug/m}^3 \times 1.53 \text{ lb/hr} \times .1 = 16.52 \text{ ug/m}^3$

SUN GRAPHIC AIR STRIPPER DATA

9/11/90

INPUTS:				OUTPUTS:			
18	GPM				681.3	LITERS/	MIN
1060	ACFM				30.0	M3/MIN	
	UG/L		MW	L	B/HR	MG/M3	
TOLUENE	170000		92.14		1.5323	3858.2	
ETHYLBEN.	483		116.25		0.0044	11.0	
BENZENE	138		84.16		0.0012	3.1	
XYLENES	640		106.17		0.0058	14.5	
MEK	28		72.11		0.0003	0.6	
REMOVAL	100	%					
		INPUT		X FACTOR		OUTPUT	•
EMISSION RATE		1	LB/HR	. 0.125997		0.125997	G/S
STACK HEIGHT		28.3	FT	0.3048		8.62584	M
STACK DIA		18	IN	0.0254		0.4572	M
STACK FLOW		1060	ACFM	0.000472		0.50032	CUBIC M/S
VELOCITY	******	600	FPM	0.00508		3.0471663	M/S
STACK TEMP		70	oF (5/9(d	F-32)) + 273.1	15	294	οK
AMB TEMP		70	oF (5/9(d	F-32)) + 273.1	15	294	oK
RECEPTOR HEIGHT	r	0	FT	0.3048		0	M
BLD. HT		10	FT	0.3048		3.048	M
BLD WIDTH		10	FΓ	0.3048		3.048	M
BLD DEPTH		10	FΓ	0.3048		3.048	M
CONC***		0.0000157	LBS/CF	1.6E + 10		251572.32	UG/M3

09-10-90 02:10:41

```
* SCREEN-1.1 MODEL RUN ***

* VERSION DATED 88300 ***
```

I Graphic Air Stripper

IPLE TERRAIN INPUTS:

POINT SOURCE TYPE EMISSION RATE (G/S) .1260 STACK HEIGHT (M) 8.63 STK INSIDE DIAM (M) = .46 3.05 STK EXIT VELOCITY (N/S)= STK GAS EXIT TEMP (K) = 294.00 AMBIENT AIR TEMP (K) = 294.00RECEPTOR HEIGHT (M) = .00 IOPT (1=UR8,2=RUR) r 2 BUILDING HEIGHT (M) = 3,05 MIN HORIZ BLOG DIN (N) = 3.05 MAX HORIZ BLDG DIM (M) = 3.05

OY. FLUX = .00 H**4/S**3; MOM. FLUX = .49 H**4/S**2.

* FULL METEOROLOGY ***

* SCREEN AUTOMATED DISTANCES ***

* TERRAIN HEIGHT OF O. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST	CONC		U10M	ustk	HIX HT	Plume	SIGMA	SIGMA	
(H)	(ne/w**3)	STAB	(M/S)	(M/\$)	(H)	HT (M)	Y (H)	Z (H)	DHASH
10.	.4890E-04	1	3.0	3.0	960.0	9.6	3.4	1.6	NO
100.	100.3	3	1.0	1.0	320.0	12.8	12.5	7.5	NO
200.	98.30	4	1.0	1.0	320.0	12.8	15:6	8.6	NO
300.	96.03	5	1.0	1.0	5000.0	12.6	16.9	8.8	NO
400.	87.73	6	1.0	1.0	5000.0	12.3	14.7	7.1	NO
500.	92.33	6	1.0	1.0	5000.0	12.3	18.0	8.5	NO
600.	87.74	6	1.0	1.0	5000.0	12.3	21.3	9.8	NO
700.	79.99	6	1.0	1.0	5000.0	12.3	24.5	11.0	NO
800.	71.69	6	1.0	1.0	5000.0	12.3	27.7	12.0	NO
900.	64.18	6	1.0	1.0	5000.0	12.3	30.8	13.0	NO
1000.	57.57	6	1.0	1.0	5000.0	12.3	33.9	14.0	МО
MUMIX	1-HR CONCENT	RATION	AT OR	8EYOND	10. M	:			
122.	107.8	3	1.0	1.0	320.0	12.8	15.1	9.1	MO

WASH = MEANS NO CALC MADE (CONC = 0.0)

WASH=NO MEANS NO BUILDING DOWNWASH USED

MASH=HS MEANS HUBER-SNYDER DOWNMASH USED

MASH=SS MEANS SCHULMAN-SCIRE DOWNMASH USED

WASH=NA MEANS DOWNWASH NOT APPLICABLE, X(3*LB

** CAVITY CALCULATI	ON.	- 1 ***	*** CAVITY CALCULATION -	2 ***
CONC (UG/M##3)	=	.0000	CONC (UG/M**3) =	.0000
CRIT WS @10M (H/S)	=	99.99	CRIT WS @10M (M/S) =	99.99
CRIT WS @ HS (M/S)	Ξ	99.99	CRIT HS @ HS (M/S) ≈	99.99
DILUTION WS (M/S)	=	99.99	DILUTION WS (M/S) =	99.99
CAVITY HT (H)	=	4.38	CAVITY HT (M) =	4.38
CAVITY LENGTH (M)	=	4.49	CAVITY LENGTH (M) =	4.49
ALONGWIND DIM (M)	Ξ	3.05	ALONGHIND DIM (M) ≈	3.05

BEST AVAILABLE COPY

*** SUMMARY OF SCREEN MODEL RESULTS ***

TITE CORE HOL CHECOMMENT ON CHIEF HO / 20.0 IN O. COMO OLI - 0.0

ALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (H)	
MPLE JERRAIN	107.8	122.	0.	

**************** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS ** ****************

P 256 396 176

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse) Special Delivery Fee Restricted Delivery Fee Return Receipt showing to whom and Date Delivered PS Form 3800, June 1985 Return Receipt showing to whom, Date, and Address of Delivery TOTAL Postage and Fees 8-24-90 AC 06-184651 Postmark or Date

the start of	
SENDER: Complete items 1 and 2 when additional si	ervices are desired, and complete items
SENDER: Complete Items 1 and 2 with state 3 and 4. 3 and 4. Put your address in the "RETURN TO" Space on the reverse s from being returned to you. The return receipt fee will provide y the date of delivery. For additional fees the following services and check box(es) for additional service(s) requested. 1. Show to whom delivered, date, and addressee's additional service(s) requested. (Extra charge)	ide. Failure to do this will prevent this card ou the name of the person delivered to and are available. Consult postmaster for fees
	4. Article Number 396176
3. Article Addressed to: Thorm Thickal, Prea. Sun Graphic, Fre. 1820 NW 215+ 51.	Type of Service: Registered Insured
1820 NW 215+ St. Portparo Black, Fl 33060	Certified COD Express Mail Return Receipt for Merchandise
(G) append	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Addressee	Addressee's Address (ONLY if requested and fee paid)
6. (Signature – Agent	
7 Date of Delivery	
8-27-40 PS Form 3811, Apr. 1989 +U.S.G.P.O. 1989-238-81	5 DOMESTIC RETURN RECEIPT
PS Form 30 1 1, Apr. 1902	



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 23, 1990

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Norm Nichol, President Sun Graphic, Inc. 1820 Northwest 21st Street Pompano Beach, Florida 33060

Dear Mr. Nichol:

Re: File No. AC 06-184651, Groundwater Air Stripper

The Department has made a preliminary review of your application for permit to construct a groundwater air stripper at your existing lithographic blanket manufacturing plant in Pompano Beach, Broward County, Florida. Before this application can be processed, we need the following information:

- 1. How much MEK is in the contaminated groundwater?
- 2. Has the leaking underground storage tank handled other solvents besides toluene? If so, what is their concentration in the groundwater?
- 3. How was the maximum and average concentrations of the BTEX compounds in the contaminated groundwater determined?
- 4. How will Sun Graphic, Inc. monitor the groundwater being treated in the air stripper?

Please answer these questions within 30 days of receipt of this letter.

We will resume processing the application after the requested information is received.

If you have any questions on this matter, please write to me or call Willard Hanks at (904)488-1344.

Sincerely,

C. H. Fancy, P.E

Chief

Bureau of Air Regulation

CHF/WH/plm

c: Isidore Goldman, SE Dist. Gary Carlson, Broward Co. Robert Baker, P.E.

Permit Data Form

AC06-184651

CHECKINO CHECKEDATE A STENDORINO 5550 010311 08/01/90

SUN GRAPHIC INC 1820 NORTHWEST 21st STREET POMPANG BEACH, FLORIDA 33069 (305) 974-0217



BARNETT BANK OF SOUTH FLORIDA N.A. CYPRESS CREEK 828 N.W. 62 STREET, FT. LAUDERDALE, FL 23309

CHECK NO. 05550

TWO HUNDRED FIFTY AND 00/100 DOLLARS

\$******250.00

PAY TO THE ORDER OF

) smrens:

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

6821 S.W. Archer Road Gainesville, FL 32608 TEL (904) 371-9451 FAX (904) 378-1500

NELLIVED

July 21, 1990 AUG 3 AM 10 30

FLA. DEFINITHENT OF ENVIRONMENTAL REG. WEST PALE BEACH

Ms. Stephanie Brooks
Florida Department of
Environmental Regulation
Southeast District
1900 S. Congress Avenue
West Palm Beach, Florida 33406

View ...

RE: Sun Graphic, Inc. Air Stripper Permit

Dear Ms. Brooks:

Attached please find the original and three copies of the air pollution construction permit application, and a check for \$250 for an air stripper servicing a groundwater remediation project.

An air toxic study shows that the emissions from the air stripper will be less than the FDER no-threat levels.

We hope to install the air stripping system in October 1990 to comply with the requirements of our Hazardous Material Contamination License issued by BCEQCB. The purpose of the air stripper is to treat contaminated groundwater.

Please contact me if you have any questions or need additional information to process the permit. Your help in expediting the review process is greatly appreciated.

Sincerely,

BAKER ENVIRONMENTAL ENGINEERING, INC.

Robert A. Baker, P.E.

RAB: led

Enclosures

cc: Norm Nichol Dan Smolen Daniela Banu

٠,

BEST AVAILABLE COPY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

Part of none

RECEIVED
AUG 3 1990

Dept. of Environmental Reg. West Paim Beach

APPLICATION TO CREEKATE/CONSTRUCT AIR POLLUTION SOURCES								
SOURCE TYPE: Air Stripper [X] New1 [] Existing1								
APPLICATION TYPE: [X] Construction [] Operation [] Modification								
COMPANY NAME: Sun Graphic, Inc. COUNTY: Broward								
Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Air Stripper for Contaiminated								
SOURCE LOCATION: Street 1820 N.W. 21st Street groundwater City Pompano Beach								
UTM: East (17) 585.200 km North 2904.300 km								
Latitude 26 ° 15 ' 26 "N Longitude 80 ° 08 ' 49 "W APPLICANT NAME AND TITLE: Norm Nichol, President								
APPLICANT ADDRESS: same as above								
SECTION I: STATEMENTS BY APPLICANT AND ENGINEER								
A. APPLICANT								
I am the undersigned owner or authorized representative* of Sun Graphic, Inc.								
I certify that the statements made in this application for a Construction permit are true, correct and complete to the best of my knowledge and belief. Further I agree to maintain and operate the pollution control source and pollution contro facilities in such a manner as to comply with the provision of Chapter 403, Florid Statutes, and all the rules and regulations of the department and revisions thereof. also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitten establishment.								
*Attach letter of authorization Signed:								
Norm Nichol, President Name and Title (Please Type)								
Date: 7/23/90 Telephone No. 305/974-0217								
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)								
This is to certify that the engineering features of this pollution control project ha								

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

DER Form 17-1.202(1) Effective October 31, 1982

Page 1 of 12

been xxxxxxxx/examined by me and found to be in conformity with modern engineerin principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, the

an effluent that complies with a rules and regulations of the departments, if authorized by the own	, when properly maintained and operated, will discharge il applicable statutes of the State of Florida and the artment. It is also agreed that the undersigned will nor, the applicant a set of instructions for the proper pollution control facilities and, if applicable,
·	signed Tobut A Bite
	Robert A. Baker
	Name (Please Type)
	Baker Environmental Engineering Inc.
-	Company Name (Please Type)
_	6821 S.W. Archer Road, Gainesville, FL 32608
	Mailing Address (Please Type)
orida Registration No. 21118	Date: 7/21/90 Telephone No. 904/371-9451
SECTION II:	GENERAL PROJECT INFORMATION
and expected improvements in sour	the project. Refer to pollution control equipment, ce performance as a result of installation. State in full compliance. Attach additional sheet if
Installation of an air strippi	ng system for recovery and decontamination of
groundwater. The system will	have a pumping rate of approximately 18 gpm and
-	actor of Pengland
will be removing toluene.	
100111	
Schedule of project covered in th	is application (Construction Permit Application Only)
Start of Construction September	1990 Completion of Construction October 1990
for individual components/units o	(s): (Note: Show breakdown of estimated costs only f the project serving pollution control purposes. be furnished with the application for operation
\$20,000(+) for air stripper	
Indicate any previous DER permita point, including permit issuance	, orders and notices associated with the emission and expiration dates.
None	
Form 17-1.202(1)	

В

C

D

	this is a new source or major modification, answer the following quest	ions.
ι.	Is this source in a non-attainment area for a particular pollutant?	Yes
	á. If yes, has "offset" been applied?	No
	b. If yes, has "Lowest Achievable Emission Rate" been applied?	No
	c. If yes, list non-attainment pollutants. Ozone	
2.	Does best available control technology (BACT) apply to this source? If yes, see Section VI.	No
5.	Does the State "Prevention of Significant Deterioriation" (PSD) requirement apply to this source? If yea, see Sections VI and VII.	No
¥.	Do "Standarda of Perförmance for New-Stationary Sources" (NSPS) apply to this source? "	No
5.	Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?	No
) a	"Ressonably Available Control Technology" (RACT) requirements apply	No

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

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

- 1. Broward County is a non-attainment are for oxidants (ozone). Since the source will be less than 100 TPY of VOCs, offsets and LAER are not applied.
- 2. BACT is not applicable to this source since it is a minor source in a non-attainment area.

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

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

	Contem	inants_	Utilization			
Description	Type	# Wt	Rate - lbs/hr	Relate to Flow Diagram		
Groundwater	VOC	0.02 %	1.5	See Figure 1		
·	-					
	Ĵ			•.		

١.	Process Rate, if applicable: (See Sect	ion V, Item 1)	
	1. Total Process Input Rate (1bs/hr):	N/A	
	2. Product Weight (lbs/hr):	N/A	

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

Name of	Emission	Allowed ² Emission Rate per	Allowable ³ Emission	Poter	Relate to Flow	
Contaminant	Maximum Actual lbs/hr T/yr	Rule 17-2	lbs/hr	lbs/hr	T/yr	Diagram
Toluene	0.009 0.039	N/A	N/A	0.009	0.039	
Benzene (00009 0.00039	N/A	N/A	0.00009	0.00039	
Ethyl Benzene	0.0018 0.00079	N/A	N/A	0.0018	0.00079	
Xylene	0.0009 0.00039	N/A	N/A	0.0009	0.00039	

¹See Section V, Item 2.

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

³Calculated from operating rate and applicable standard.

 $^{^{4}}$ Emission, if source operated without control (See Section V, Item 3).

D. Control Devices: (See Section V, Item 4) None

Name and Type (Model & Serial No)	Conteminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
	· · · · · · · · · · · · · · · · · · ·			
			,	
		~		
			·	

E. Fuels N/A

Fuel Analysis:

	Consum		
Type (Be Specific)	avg/hr	max./hr	Maximum Heat Input (MMBTU/hr)
			_
,			
laites Natural Cas MMCE/ha	- 54-1 041a - calle	on/has Coal wood	refuse other lbs/br

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

Percent Sulfur:		Percent Ash:	
Density:	lhs/gal	Typical Percent Nitrogen:	

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

Annual Average _____ Maximum _____

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

The recovered and decontaminated groundwater will be discharged to the sewer.

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		Geometry and									
Stack Heig	jht:		·	ft.	_ft. Stack Diameter:						
Gas Flow R	late:	ACFH		_DSCFH	Ga	s Exit Temp	erature:	°F			
Water Vapo	r Content			%	۷e	locity:		FP			
		SECT				R INFORMATI	ON _				
	<u> </u>			Not App	110						
Type of Waste		Type I (Rubbish)				Type IV (Patholog- ical)	Type V (Liq.& Gas By-prod.)	Type VI (Solid By-prod.)			
Actual lb/hr Inciner- ated											
Uncon- trolled (lbs/hr)											
Total Weig Approximat	ht Incine e Number		r)	per da	y	day/	rk	hr)			
								<u></u>			
**************************************		Volume (ft) ³	Heat Re	olease hr)	1	Fuel ype	81U/hr	Temperature (°f)			
Primary C	hamber										
Secondary	Chamber							· · · · · · · · · · · · · · · · · · ·			
itack Heigl	nt:	ft. S	tack Diam	ter: _		····	Stack Te	emp			
as Flow R	ate:	-	ACFH			DSCFH* \	elocity:	FPS			
If 50 or :	more tons		gn capaci	ty, sub	mit	the emissi		n grains per stan-			
ype of po	llution co	ontrol device	:: [] Cy	clane	[]	Wet Scrubb	er [] Aft	erburner			
			[] Ot	her (sp	eci	fy)					

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Brief	description	n of	ope	rating	cha	racte	risti	cs of	control	devi	ce8:			
														
·														
					-							•		
	ate disposa atc.):	lof	any	efflu	ont :	other	then	thet	omitted	from	the	stack	(scrubber	water,
														
				_				·				· · · · · ·		

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

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

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

- 2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Hethods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
- Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
- 4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
- 5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
- 6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of air-borne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
- 8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

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

10.	With	an	application	for	operati	on per	ait,	attach a C	ertifi	cate	o f	Comple	tion	o f	Con-
	struc	tio	n indicating	g tha	t the	source	WAS	constructe	as b	ahown	i	n the	cons	truc	tion
	permi	t.						•							

	SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source? [] Yes [] No Contaminant Rate or Concentration Has EPA declared the best swallable control technology for this class of sources (If yes, attach copy) [] Yes [] No Contaminant Rate or Concentration What emission levels do you propose as best swallable control technology? Contaminant Rate or Concentration Describe the existing control and treatment technology (if any). 1. Control Device/System: 2. Operating Principles:			
Α.		stationary sources pursuant to 40 C.F.R. Part 60		
	[] Yes [] No			
	Contaminant	Rate or Concentration		
_				
<u>.</u>				
в.		control technology for this class of sources (If		
	[] Yes [] No .			
	Conteminant	Rate or Concentration		
·				
c.	What emission levels do you propose a	Rate or Concentration		
	Conteminant	Rate or Concentration		
_				
	· · · · · · · · · · · · · · · · · · ·			
0.	Describe the existing control and tre	estment technology (if any).		
	1. Control Device/System:	2. Operating Principles:		
	3. Efficiency:*	4. Capital Costs:		
*Ex	plain method of determining			

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	5.	Useful Life:		6.	Operating Costs:					
	7.	Energy:		8.	Haintenance Cost:					
	9.	Emissions:								
		Contaminant			Rate or Concentratio	ů.				

		· · · · · · · · · · · · · · · · · · ·								
	10.	Stack Parameters								
	a.	Height:	ft.	ь.	Diameter:	ft.				
	c.	Flow Rate:	ACFH	d.	Temperature:	°F.				
	٠.	Velocity:	FPS							
٤.		cribe the control and treatment additional pages if necessary).	techn	olog	y available (As many types as	applicable,				
	1.									
	a.	Control Device:		b.	Operating Principles:					
	c.	Efficiency:1		d.	Capital Cost:					
	e.	Useful Life:		f.	Operating Cost:	ंश				
	g .	Energy: 2		h.	Maintenance Cost:					
	i.	Availability of construction mat	orial	ls and process chemicals:						
	j.	Applicability to manufacturing p	roces	ses:						
	k.	Ability to construct with contr within proposed levels:	ol de	vice	, install in available space,	and operate				
	2.									
	a.	Control Device:		ь.	Operating Principles:					
	c.	Efficiency:1		d.	Capital Cost:					
	e.	Useful Life:		f.	Operating Cost:					
	g.	Energy: 2		h	Maintenance Cost:					
	i.	Availability of construction mat	erial	s an	d process chemicals:					
		n method of determining efficienc to be reported in units of elect		pow	er - KWH design rate.					
DER	For	m 17-1.202(1)								

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Applicability to manufacturing processes; Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: b. Operating Principles: a. Efficiency: 1 d. Capital Cost: Useful Life: f. Operating Cost: Energy: 2 h. Haintenance Cost: g. Availability of construction materials and process chemicals: Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 4. Control Device: a _ b. Operating Principles: Efficiency: 1 d. Capital Costs: Useful Life: f. Operating Cost: g. Energy:2 h. Haintenance Cost: i. Availability of construction materials and process chemicals: j. Applicability to manufacturing processes: k. Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: 1. Control Device: 2. Efficiency: 1 3. Capital Cost: Useful Life: Energy:2 5. Operating Cost: 7. Maintenance Cost: 8. Hanufacturer: 9. Other locations where employed on similar processes: a. (1) Company: (2) Mailing Address: (3) City: (4) State: lexplain method of determining efficiency. ²Energy to be reported in units of electrical power - KWH design rate. DER Form 17-1.202(1)

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	(5) Environmental Hanager:					
	(6) Telephone No.:	•				
	(7) Emissions: 1					
	Contaminant			Rate or	Concentration	
				•		
	(8) Process Rate:1					
	b. (1) Company:					
	(2) Hailing Address:					
	(3) City:		(4) State:			
	(5) Environmental Manager:					
	(6) Telephone No.:					
	(7) Emissions: 1					
	Contaminant			Rate or (Concentration	-
	(8) Process Rate: I				•	
	10. Reason for selection and	i description	of systems:			
	plicant must provide this inf ailable, applicant must state			Should	this information	not b
Α.	SECTION VII ~ Company Honitored Data	PREVENTION OF Not Appli		DETERIOR	ATION	
	1no. sites	TSP _	()	so ² *	Wind spd,	/dir
	Period of Monitoring		/ to			
	Other data recorded		<u></u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
	Attach all data or statistica	l summarios t	to this appli	cation.		
◆Sp	ecify bubbler (8) or continuou	в (C).				
	Form 17-1.202(1) ective November 30, 1982	Page J	ll of 12			

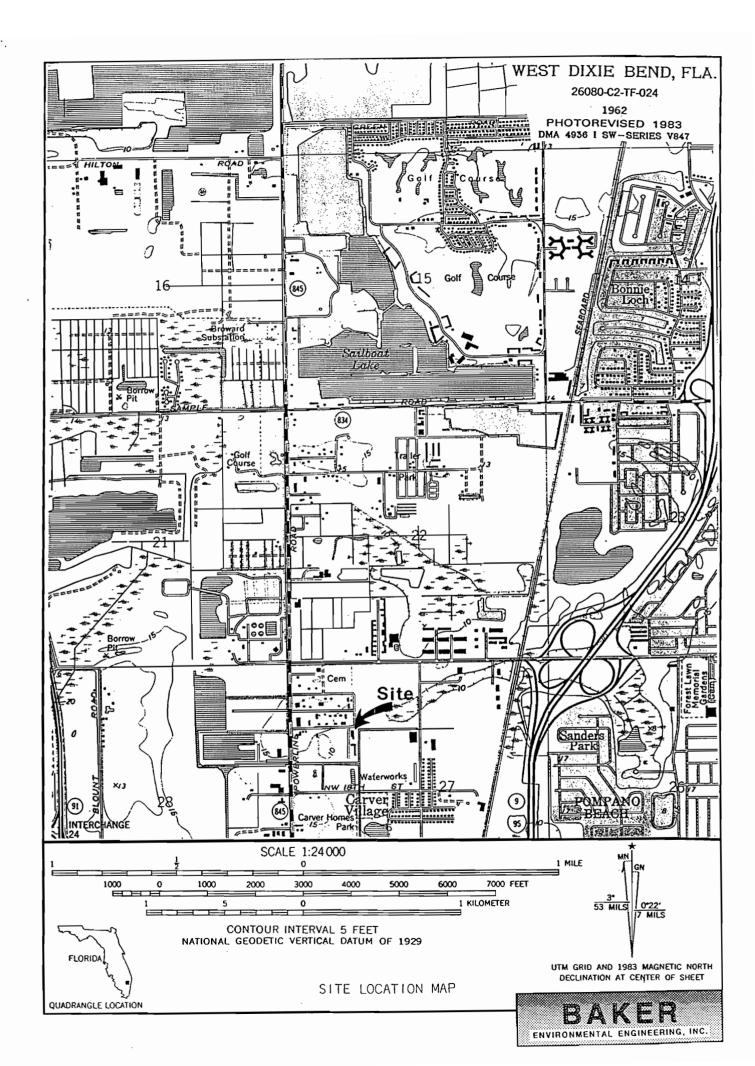
	2.	Instrument	ation, Field	and	Labor	atory								
	a.	Was instru	mentation Ef	'A roi	ferenc	ed or	its e	quivale	nt?	[]	Yos	[] N	lo	
	ь.	Was inatru	mentation ce	libra	ated i	n acco	rdanc	e with	Depa	rtme	nt p	rocedur	es?	
		[] Yes [] No [] U	Inknav	ku .									
8.	Met	oor ological	Data Used f	or Ai	aug ı	lity Ho	deli	ng						
	1.	Your	(s) of data	from	month	day	/ year	to mon	th /	day	yea:	<u>-</u>		_
	2.	Surface da	ta obtained	from	(loca	tion)_				•				
	3.	Upper air	(mixing heig	ht) d	ata ol	btained	fro	(loca	tion)				
	4.	Stability	rind rose (S	TAR)	data (obtaine	d fŕ	om (loc	atio	n)			_	
c.	Comp	puter Hodels	Beed :										•	
	1.							Hodifi	od?	If y	es,	attach	desci	ription.
	2.		<u>-</u>					Modifi	ed?	If y	es,	attach	desci	iption.
	3.							Hodifi	ed?	If y	es,	attach	descr	iption.
	4 -													
		ach copies o le output ta	f all final	mode	l runs	s showi	ng in	iput da	ta, :	recep	tor	locati	ons, e	nd prin-
٥.	Appl	icants Maxi	.mum Allowab	le Em	ission	Data								
	Pol1	utent		Em	noiesi	Rate								
	Ţ	SP							grad	as/se	C			
	s	02							grad	8/8 c	c			
ε.	Emis	sion Data U	sed in Hodel	ing				•						
	poin		emission sou n NEDS point ating time.											
F.	Atta	ch all othe	r informatio	u sut	porti	ve to 1	the P	SD ravi	aw.					

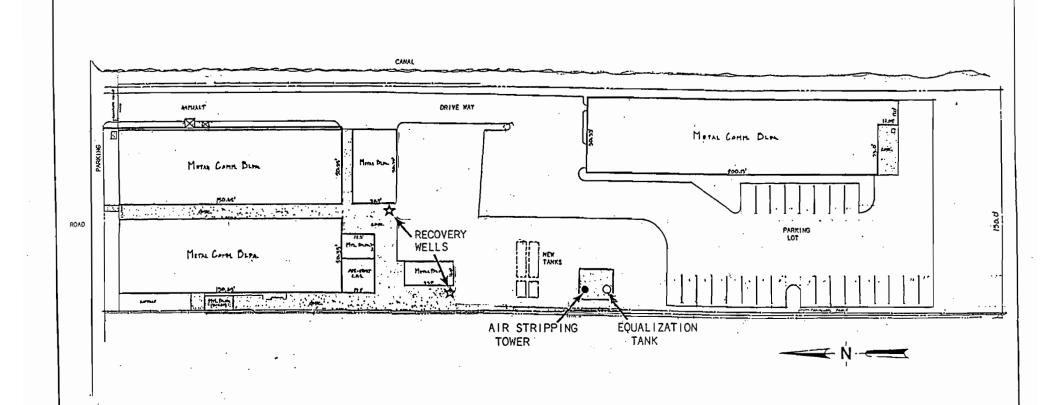
- F.
- Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.
- H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

SITE LOCATION

and

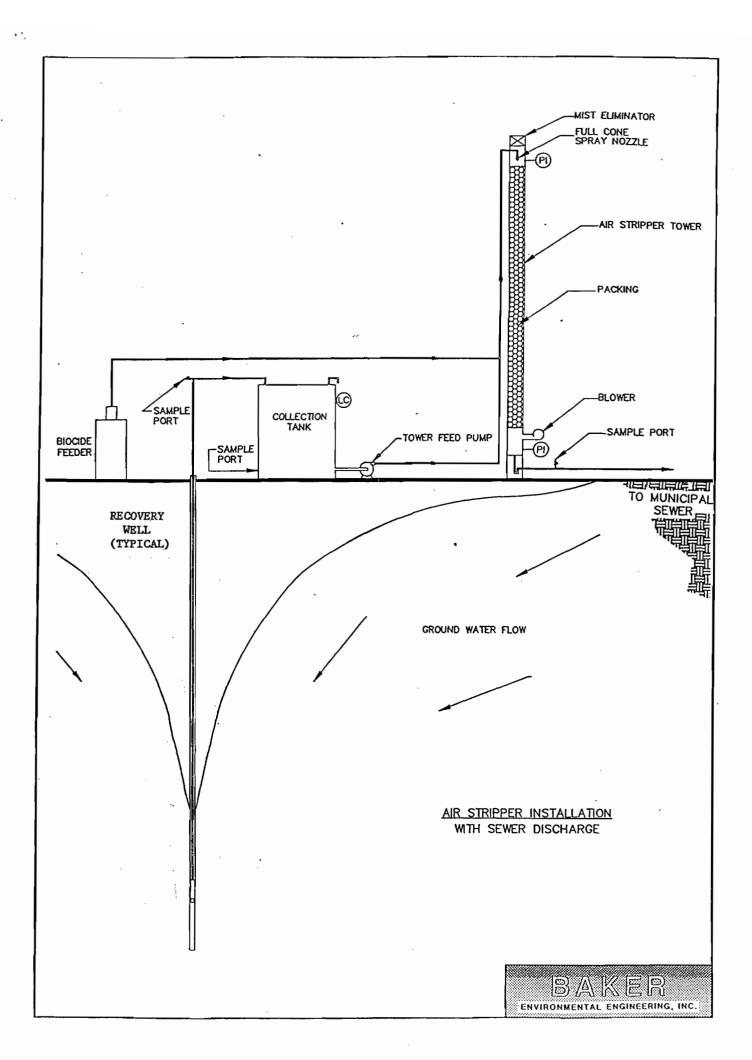
PLOT PLAN

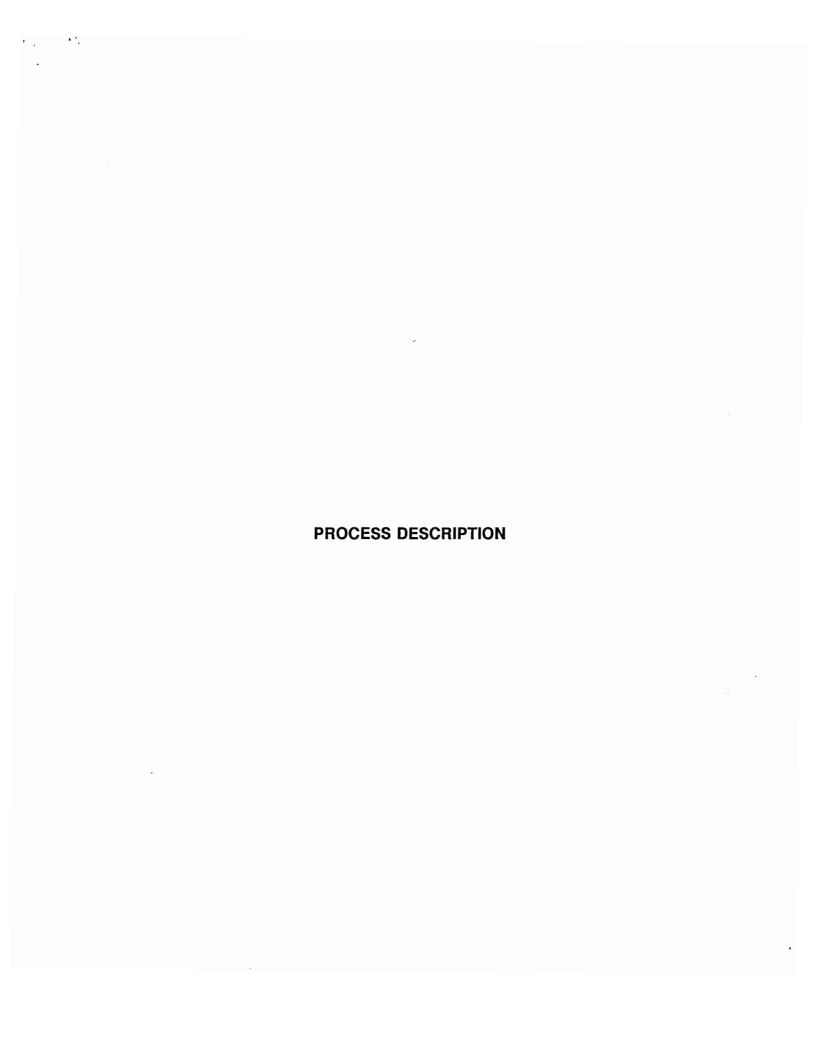




REMEDIATION EQUIPMENT LOCATION

BAKER ENVIRONMENTAL ENGINEERING, INC.





PROCESS DESCRIPTION

Overview

Sun Graphic, Inc. (SGI) plans to operate a groundwater remediation system (air stripper) to recover a past release of toluene from underground storage tanks. The groundwater contamination has the following characteristics:

	Maximum Concentration	Average Concentration
<u>Parameter</u>	(ug/1)	(ug/1)
	*	
Toluene	170,000	<1,000
Benzene	65	<10
Ethyl Benzene	140	<20
Xylene	50	<10

The air stripper will have the following characteristics:

Pumping Rate	18 GPM
Air Flow	1,060 ACFM
Airstripper Height	27 feet (min)
Packing Height	22 feet
Diameter	1.5 feet
Operating Hours	8,260 hrs/year
Removal Efficiency	>99%

The air stripper is anticipated to be in operation over the next 5 years.

Air Emissions

The air emissions, assuming 100% stripping, are as follows:

	Maxim	um	Ave	cage
<u>Parameter</u>	<u>(1b/hr)</u>	(TPY)	<u>(lb/hr)</u>	(TPY)
Toluene	1.531	6.707	0.009	0.0390
Benzene	0.0006	0.003	.00009	0.00039
Ethyl Benzene	0.0013	0.006	.00018	0.00079
Xylene	0.0005	0.002	.0009	0.00039

It is expected that after 3 to 6 months the average case will be occurring due to the fact that, by this time, the initial slug of contaminants will have passed.

AIR TOXIC MODELING RESULTS

Air Toxics

In order to evaluate any toxic effect of specific compounds, a Screen Drift Model was executed using a 1 lb/hr emission rate and the air stripper's characteristics. The maximum 1-hour concentration calculated by the model was 114.4 ug/m^3 . This result was then scaled for each contaminant and converted to an 8-hour, 24-hour, and annual concentration using the following EPA model conversion factors:

8-hour = 0.7×1 -hour

24-hour = 0.4×1 -hour

Annual = 0.1×1 -hour

Table 1 summarizes these results. All four compounds were found to be within the calculated no threat levels.

Table 1. Air Toxic Emissions, Sun Graphic, Inc. - Air Stripper

	CAT		No Threa			el Results (ug/m³)*	i
		8-hour	24-hour	Annua1	8-hour	24-hour	Annual
Toluene	В			2000			17.51
Benzene	Α	30	7.1	0.12	0.048	0.027	0.007
Ethyl Benzene	Α	435	1,036		0.104	0.06	
Xylene	Α	4350	1036	300	0.040	0.023	0.006

Notes:

*Based on:

Toluene (1b/hr) 1.5310
Benzene (1b/hr) 0.0006
Ethyl Benzene (1b/hr) 0.0013
Xylene (1b/hr) 0.0005

Model conversion factors:

8-hour = 0.7 24-hour = 0.4 Annual = 0.1

(Note: Model results were maximum of 114.4 ug/m³ for 1 lb/hr).

Example:

Toluene annual level = 114.4 $ug/m^3 \times 1.53$ $lb/hr \times .1 = 17.51$ ug/m^3

DATA CONVERSION

Sun Graphics Air Stripper Data

7/17/90

INPUT

18 GPM 1060 ACFM

	UG/L	MH	LB/HR	MG/M^3
TOLUENE	170000	92.14	1.5310	0.1929
BENZENE	100	116.25	0.0006	0.0001
ETHYL BENZENE	65	84.16	0.0013	0.0002
XYLENE	50	106.17	0.0050	0.0001

	INPUT		X FACTOR	OUTPUT		
EMISSION RATE	1	LB/H	R 0.125997	0.125997	6/S	
STACK HEIGHT	27	FT	0.3048	8.2296	M	
STACK DIA	18	IN	0.0254	0.4572	Ħ	
STACK FLOW	1060	ACFM	0.000472	0.50032	CUBIC	M/S
VELOCITY *****	₹ 600	FPM	0.00508	3.047166	M/S	
STACK TEMP	70	oF	(5/9(oF-32))+273.15	294	οK	
AMB TEMP	70	οF	(5/9(oF-32))+273.15	294	οK	
RECEPTOR HEIGHT	3.3	FΤ	0.3048	1.00584	M	
BLD. HT	10	FT	0.3048	3.048	M	
BLD WIDTH	10	FT	0.3048	3.048	M .	
BLD DEPTH	10	FT	0.3048	3.048	M	
CONC. ****	1.57E-05	18/0	F 1.6E+10	2.52E+05	H6/M3	

```
*** SCREEN-1.1 MODEL RUN ***
*** VERSION DATED 88300 ***
```

UN GRAPHIC AIR STRIPPER RATE 1 LB/HR

```
'IMPLE TERRAIN INPUTS:
```

= POINT SOURCE TYPE EMISSION RATE (G/S) = .1260= 8.23 STACK HEIGHT (M) STK INSIDE DIAM (M) = . 46 STK EXIT VELOCITY (M/S)= 3.05 STK GAS EXIT TEMP (K) = 294.00AMBIENT AIR TEMP (K) = 294.00RECEPTOR HEIGHT (M) = .00 IOPT (1=URB,2=RUR) BUILDING HEIGHT (M) = 3.05MIN HORIZ BLDG DIM (M) = 3.05MAX HORIZ BLDG DIM (M) = 3.05

.UOY. FLUX = .00 M**4/S**3; MOM. FLUX = .49 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF O. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

TRID	CONC		U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA	
(M)	(UG/M**3)	STAB	(M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH
1.	.0000	0	.0	.0	.0	.0	.0	.0	NA
100.	108.9	3	1.0	1.0	320.0	12.4	12.5	7.5	NO
200.	104.7	4	1.0	1.0	320.0	12.4	15.6	8.6	ND
300.	102.1	5	1.0	1.0	5000.0	12.2	16.9	8.8	NO
400.	96.06	6	1.0	1.0	5000.0	11.9	14.7	7.1	NO
500.	98.47	6	1.0	1.0	5000.0	11.9	18.0	8.5	NO
600.	92.11	6	1.0	1.0	5000.0	11.9	21.3	9.8	NO
1AXIMUM	1-HR CONCENT	RATION	AT OR	BEYOND	1. #:	;			
118.	114.4	3	1.0	1.0	320.0	12.4	14.7	8.8	NO

DWASH= MEANS NO CALC MADE (CONC = 0.0)

DWASH=NO MEANS NO BUILDING DOWNWASH USED

DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED

DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED

DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

*** TERRAIN HEIGHT OF O. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST	CONC		U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA	
(M)	(UG/M**3)	STAB	(M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH
118.	114.4	3	1.0	1.0	320.0	12.4	14.6	8.7	NO

DWASH= MEANS NO CALC MADE (CONC = 0.0)
DWASH=NO MEANS NO BUILDING DOWNWASH USED
DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED

DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

*** CAVITY CALCULAT	ON -	1 +++	*** CAVITY CALCULATION -	2 ***
CONC (UG/M**3)	=	.0000	CONC (UG/M**3) =	.0000
CRIT WS @10M (M/S)	≈	99.99	CRIT WS @10M (M/S) =	99.99
CRIT WS @ HS (M/S)	=	99.99	CRIT WS @ HS (M/S) =	99.99
DILUTION WS (M/S)	=	99.93	DILUTION WS (M/S) =	99.99
CAVITY HT (M)	~	4.38	CAVITY HT (M) =	4.38
CAVITY LENGTH (M)	=	4.49	CAVITY LENGTH (M) =	4.49
ALDNGWIND DIM (M)	=	3.05	ALONGWIND DIM (M) =	3.05

AVITY CONC NOT CALCULATED FOR CRIT WS > 20.0 M/S. CONC SET = 0.0

CALCULATION	MAX CONC	DIST TO	TERRAIN
PROCEDURE	(UG/M**3)	MAX (M)	HT (M)

IMPLE TERRAIN	114.4	118.	0.

* KEMEMBER IN INCLUDE BACKGROUND CUNCENIKATIONS **



6821 S.W. Archer Road R E C E I V E D
Gainesville, FL 32608
TEL (904) 371-9451
FAX (904) 378-1500

JUL 2 7 1990

DER-BAQM

July 24, 1990 B-2253

Mr. Willard Hanks
Florida Department of
Environmental Regulations
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399

RE: Sun Graphic, Inc

File No. AC-06-170598 SOLVENT RECOVERY SYSTEM (SRS)

Dear Willard:

Attached please find a copy of our permit application of temporary air stripper to be used at SGI's groundwater remediation project. As we discussed, the expected VOC emissions are 0.04 tons per year and should not affect the overall facility from achieving emissions less than 100 tons of VOC per year.

The expected life of the groundwater problem ranges from 2 to 5 years.

Please let me know if you have any questions.

Sincerely,

BAKER ENVIRONMENTAL ENGINEERING, INC.

Robert A. Baker, P.E.

RAB:ljc

CC: Charlie Palmer Norm Nichol Dan Smolen Mary Smallwood い、HANKこ な、BNDRELS C、FAVCY

BAKER[WP]B-2253

July 23, 1990

Ms. Daniela Banu
Broward County Environmental Quality
Control Board
621 South Andrews Avenue
Ft Lauderdale, Fl 33301

Dear Ms. Banu:

Enclosed is the county permit application to operate an air stripper in conjunction with the remedial action at our facility in Pompano Beach. A check for \$30.00 is also enclosed. Also, enclosed is a copy of the state air permit application that is being submitted to Ms. Stephanie Brooks of the Florida Department of Environmental Regulation.

We hope to install the air stripping system in October, 1990 to comply with the requirements of our Hazardous Material Contamination License issued by BCEQCB. The purpose of the air stripper is to treat contaminated groundwater.

Please contact me if you have any questions or need additional information to process the permit. Your help in expediting the review process is greatly appreciated.

Sincerely,

Dan Smolen Plant Manager

xc: Patricia Markey, Baker

BROWARD COUNTY ENVIRONMENTAL QUALITY CONTROL BOARD 500 S.W. 14TH COURT, FORT LAUDERDALE, FLORIDA 33315 TEL. - 765-5881

	APPLICATION FOR	POLLUTION	CONTROL	EQUIPMENT	LICENSE
--	-----------------	-----------	---------	-----------	---------

A FILING FEE OF \$20.00 MUST ACCOMPANY EACH APPLICATION. PLEASE MAKE CHECKS PAYABLE TO BROWARD COUNTY BOARD OF COUNTY COMMISSIONERS. THIS FILING FEE WILL BE APPLIED TO THE TOTAL LICENSE FEE WHICH WILL BE DUE PRIOR TO ISSUANCE OF LICENSE.

1.	LICENSE TO BE ISSUED TO:		
	Sun Graphic, Inc.		
	Business Name		
	1820 N.W. 21st Street,	Pompano Beach, FL	33069
	Mailing Address	City	Zip
2.	ADDRESS AT WHICH EQUIPMENT IS LOCATED:	1820 N.W. 21st Street	· · · · · · · · · · · · · · · · · · ·
3.	MUNICIPALITY WHERE EQUIPMENT IS LOCATED:	Pompano Beach	·
4.	GENERAL NATURE OF BUSINESS: Printing Pr	ess Blanket Manufacturin	g .
5.	POLLUTION LICENSE ISSUED PREVIOUSLY?	O X YES L	ICENSE NO
6.	PURSUANT TO PROVISIONS OF FLORIDA DEPARTMONT THE BROWARD COUNTY ENVIRONMENTAL QUALIMADE FOR AUTHORITY TO CONSTRUCT AND/OR OF EQUIPMENT DESCRIPTION: Air Stripper for	TY CONTROL BOARD, APPLICE THE FOLLOWING EQUIPMENTS	CATION IS HEREBY
7.	LICENSE REQUEST FOR	ESTIMATED STARTING DATE	ESTIMATED COMPLETION DATE
	X Construction or Installation	7/90	10/90
	Transfer of Operator, Owner or Lesse	e	
•	Transfer of Location		
	Existing Equipment		
8.	TYPE OR PRINT NAME AND OFFICIAL TITLE OF PERSON MUST BE A RESPONSIBLE MEMBER OF THE		
	NAME Dan Smolen T	TITLE Plant Manager	PHONE 305/974-0217
9.			

THE LICENSE APPLICATION WILL NOT BE PROCESSED UNLESS PROPERLY COMPLETED. REMEMBER - \$20.00 MUST ACCOMPANY EACH APPLICATION.