

Check Sheet

Company Name: United States Gypsum Company
Permit Number: AC 16-D77951
PSD Number: _____
Permit Engineer: _____

Application:

- | | |
|--|--------------------------|
| <input type="checkbox"/> Initial Application | Cross References: |
| <input type="checkbox"/> Incompleteness Letters | <input type="checkbox"/> |
| <input type="checkbox"/> Responses | <input type="checkbox"/> |
| <input type="checkbox"/> Waiver of Department Action | <input type="checkbox"/> |
| <input type="checkbox"/> Department Response | |
| <input type="checkbox"/> Other | |

Withdrawn

Intent:

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

Final

Determination:

- Final Determination
- Signed Permit
- BACT or LAER Determination
- Other

Post Permit Correspondence:

- Extensions/Amendments/Modifications
- Other

Spoke with reps. on 1/16/84 (D.K.)

2 1:43-2:05

✓ AC 16 33883
AC 16 33884 on Non Attainment Review
PBZ

1/23/84

D.K. said that they were going to withdraw their permit requests
PBZ

1/26/84 @ 1:15-1:19

requested a ph. call from D.K.
PBZ

2 3:23 DK called and said the retraction letters will be sent.
PBZ

UNITED STATES GYPSUM COMPANY //

Post Office Box 3197/Jacksonville, Florida 32206-0197 //

January 31, 1984

Mr. C. H. Fancy, P.E.
Deputy Chief, Bureau of Air Quality Management
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

DER

FEB 02 1984

Dear Sir:

In accordance with my telephone conversation with Bruce Mitchell on 1/26/84, U. S. Gypsum Co. requests that both applications for construction permits (AC 16-77951 and 16-77233) be withdrawn. The project that involves both these permits has been modified so these permits will no longer be necessary.

Thank you for your cooperation.

Sincerely,

David Koscielniak

David Koscielniak
Project Engineer

DK:jw

UNITED STATES GYPSUM COMPANY

Post Office Box 3197/Jacksonville, Florida 32206-0197

November 21, 1983

DER
NOV 28 1983
BAQM

Mr. C. H. Fancy, P.E.
Deputy Chief, Bureau of Air Quality Management
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

Dear Mr. Fancy:

The information you requested to complete the applications for construction permits (AC16-77951 and 16-77233) is contained below:

- Operating times in both applications should read:
24 hrs./day, 6-2/3 days/week, 52 wks./year in application Section II, E and 8320 hrs./yr. in Addendum A.
- Table which includes all particulate matter emission sources at our existing site with their emissions in tons per year is as follows:

<u>PERMIT NO.</u>	<u>LOCATION</u>	<u>ACTUAL EMIS- SIONS (Tons/Yr)</u>	<u>MAXIMUM ALLOWABLE EMISSIONS (Tons/Yr)</u>
A016-29237	Dowtherm Heater (D1)	2.41	7.53
A016-31708	Four Paper Mill Steam Boilers (PM 1-4)	None	10.23
A016-61683	(7) Calcining Kettle Burners (K1-7)	None	4.08
A016-31703	#2 Dust Collector (B-1)	2.211	82.88
A016-31704	150 Packer D.C. (B-2)	2.1	31.4
A016-31706	150 Packer D.C. (B-3)	3.12	9.5
A016-31846	#2 Board Exhaust (BD-4)	None	25.2
A016-31847	Rock Dryer Dust Collector (BH-1)	3.46	8.92
A016-2664	Airveyor Dust Collectors (B1-F, G,H,I)	12.80	28.0

<u>PERMIT NO.</u>	<u>LOCATION</u>	<u>ACTUAL EMIS- SIONS (Tons/Yr)</u>	<u>MAXIMUM ALLOWABLE EMISSIONS (Tons/Yr)</u>
A016-08594	Outside Dust Collector (B1-D)	3.074	116.18
A016-9077	#3 Dust Collector (B1-C)	4.15	8.19
A016-12726	Tube Mill Dust Collector (B1-E)	0.068	19.55
A016-16463	#1 Dust Collector (B1-A)	0.7	123.12
A016-16464	#4 Dust Collector (B1-B)	5.98	111.86
A016-18012	#2 Board Line D.C. (B-6)	1.35	110
A016-72998	McLanahan Roll Crusher	3.46	3.46
A016-61665	#3 Bd. Plant Materials Handling (BG-1,2,6,7,9)	5.013	6.93
A016-72830	Calcium Carbonate D.C. (PM-5)	0.18	0.2
A016-37814	Landplaster Packer D.C. (B-4B)	0.022	0.034
A016-61684	#5 & #6 Kettle, #4 Raymond (BH-3)	1.11	3.57
A016-61670	#7 Kettle, #1 Storage Bin	1.81	5.71
A016-37815	HRA-2	.0874	5.6
A016-37816	Forced Flow & White System	.348	1.3
A016-61668	No.3 Board Kiln Dryer	None	None
A016-61685	#5 Raymond Mill (BH-2)	0.479	1.78
A016-58076	Waste Board Reclaim System (BH-6)	0.32	1.40
A016-56235	Cogeneration Turbines (Project is conditionally set to begin in 1985)	5.74	11.232

Permit No. A016-31838 #1 Wet End Exhaust, Permit No. A016-31840 #1 Center Exhaust, and Permit No. A016-31843 #1 Dry Exhaust cover sources located in our No.1 Board Line which was permanently placed out of service in 1981.

Mr. C. H. Fancy

3

November 21, 1983

Please contact me if you require any additional information.

Sincerely,

UNITED STATES GYPSUM COMPANY

A handwritten signature in cursive script, reading "David Koscielniak". The signature is written in dark ink and is positioned above the typed name.

David Koscielniak
Project Engineer

DK:jw

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

November 16, 1983

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. D. J. Nootens, Works Manager
U.S. Gypsum Company
6825 Evergreen Avenue
Jacksonville, Florida 32206

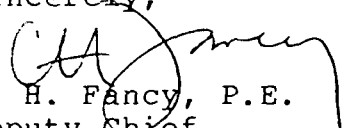
Dear Mr. Nootens:

Your applications for construction permits (AC 16-77951 and 16-77233) have been transferred from the Jacksonville Bio-Environmental Services Division Office for processing according to our division of responsibility. Based on our initial review of your proposals, the applications have been determined to be incomplete. The information required to complete the applications is described below.

1. Two different operating times have been listed in each application: 24 hrs/day, 7 days/week, 52 wks/year, in application section II, E and 8320 hr/yr in Addendum A. Please indicate which operation time is intended since it will be a permit limitation.
2. Submit a table which includes all the particulate matter emission sources at your existing site with their emissions in tons per year. The table also should include sources that have construction permits but have not begun operation.

When the requested information is received, we will resume processing your applications. If you have any questions on these matters, please call Bob King, review engineer, at (904)488-1344 or write to me at the above address.

Sincerely,


C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/BK/s

cc: Jerry E. Woosley, City of Jacksonville
Johnny Cole, NE District

UNITED STATES GYPSUM COMPANY

Post Office Box 3197/Jacksonville, Florida 32206-0197

6425 Evergreen Ave.

November 21, 1983

Mr. C. H. Fancy, P.E.
Deputy Chief, Bureau of Air Quality Management
Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301-8241

DER
10/20/83
BAQM

Dear Mr. Fancy:

The information you requested to complete the applications for construction permits (AC16-77951 and 16-77233) is contained below:

- Operating times in both applications should read:
24 hrs./day, 6-2/3 days/week, 52 wks./year in application Section II, E and 8320 hrs./yr. in Addendum A.
- Table which includes all particulate matter emission sources at our existing site with their emissions in tons per year is as follows:

Yearly Op. 1/25/83	PERMIT NO.	LOCATION	ACTUAL EMIS- SIONS (Tons/Yr)	MAXIMUM ALLOWABLE EMISSIONS (Tons/Yr)	Normal SO ₂ 1b/hr 24.50	Permitted TPM 119
24/7/52 P/A	AO16-29237 ✓	#2 Wallboard Plant Dowtherm Heater (D1) 2/24/80	2.41 1.11	7.53 ✓		
? P 24/6/52 A	AO16-31708 ✓	#1-#4 Four Paper Mill Steam Boilers (PM 1-4) 11/13/80	None 9.84 1b/hr	10.23 ?	41	675.7
24/7/52 P 24/6/52 A	AO16-61683 ✓	#1-#7 (7) Calcining Kettle Burners (K1-7) 12/13/82	None 5.84 1b/hr	4.08 ?	97.0	404
15/7/52 P 16/7/52 A	AO16-31703 ✓	#7 Calcining Kettle Burner (K1-7) 12/13/82 for #1 & 2 Raymond Mills w/BH	3.74 1b/hr	16	NO _x 12.50	?
12/7/52 P 12/6/52 A	AO16-31704 ✓	#2 Dust Collector (B-1) 9/15/80 Rotary Rock Dryer w/BH (BLH) 9/15/80 FC St. Regis	2.211 0.55 1b/hr 2.14 1b/hr allows 29.57 (5606)	82.88 ?	32.40	135
12/5/52 P 10/6/52 A	AO16-31706 ✓	150 Packer D-G. (B-2) 8/15/80 St. Regis Packer Baghouse	2.1 144 1b/hr	31.4	NO _x 8.18 1b/hr	34
? P 24/7/52 A	AO16-31846 ✓	150-Packer-D.C. (B-3) 8/14/80 Plant kiln Exhaust (BD-4) 1/11/80	3.12 6.10 1b/hr	9.5 ✓		
	AO16-31847	Rock Dryer Dust Collector (BH-1)	3.46	8.92		
12/7/52 P/A	AO16-2664 2554 51544	Pneumatic Syste with Airveyor Dust Collectors (B1-F, 3/2/82 G, H, I)	12.80 6.4 1b/hr	28.0 ✓		

AO 16-31838 11/20/80 #1 Board Kiln Wet Zone Exhaust 9/7/83 retired (#1 Board line retired)
 AO 16-03840 11/18/80 #1 Board Machine Center Exhaust (RD-2) 11/10/81 (42401) 9/7/83 retired
 AO 16-31843 11/18/80 Drying Kiln, #1 Board Plant Dry Exhaust Zone 9/7/83 " " 0.7 TSP 11.60 SO₂

PERMIT NO.	LOCATION	ACTUAL EMIS- SIONS (Tons/Yr)	MAXIMUM ALLOWABLE EMISSIONS (Tons/Yr)
19/7/52 A	Rock Crushing & Screening w/ Outside Dust Collector (BI-D)	3.074 2.08 lb/hr	116.18 ⁹ 1b/hr
24/7/52 P 16/5/52 A	Raymond Mill, Landplaster Kettle Feed Bin w/BH #3 Dust Collector (BI-C) 5/27/83	4.15 2.81 lb/hr	8.19 ⁴
24/7/52 P 8/4/52 A	Discharge Screw with BH Tube Mill Dust Collector (BI-E)	0.068 23.08 lb/hr	19.55
24/7/52 A	and #2 Gypsum Calcining Kettles #1 Dust Collector (BI-A) 6/5/79	0.7 30.63 lb/hr	123.12 ¹⁰⁴
24/7/52 A	#3 Raymond Mill + #3/4 Calcining Kettles w/BH #4 Dust Collector (BI-B) 7/6/79	5.98 26.89 lb/hr	111.66 ⁷²
24/7/52 P/A	Machine #2 Board Line D.C. (B-6) 6/5/79	1.35 26.14 lb/hr	110 ¹¹³
24/7/52 P 2 A	McLanahan Roll Crusher w/BH 10/4/83 (BH-7)	3.46 1.11	3.46 ⁵
24/7/52 P 2 A	#3 Bd. Plant Materials Handling 12/5/82	5.013 ³	6.93 ²
24/6/52 P 2 A	(BG-1, 2, 6, 7, 9) Terminalite 5.8, w/BH Calcium Carbonate D.C. (PM-5) 9/30/83	0.18	0.2
4/2/81 P 2 A	Landplaster Packer D.C. (B-4B) 8/7/81	0.022 0.44 lb/hr	0.034 ⁰
24/6/52 A	Calcining Kettles #4 Raymond (BH-3) 12/13/82	2.11 0.86 lb/hr	3.57
24/7/52 P 2 A	Calcining w/BH (BH-4) #7 Kettle, #1 Storage Bin 12/13/82	1.81 1.05 lb/hr	5.71 ^{5.0}
23/7/52 P 2 A	#2 w/BH (BH-5) 12/13/82 (HRA-2) Board Machine Sys. #2 w/BH 4/28/81 (VE only?)	0.874	5.6
9/5/82 P 2 A	Packer w/BH (B-4A) Forced Flow & White System 7/24/81	0.348 1.54 lb/hr	1.3
24/7/52 P 2 A	Wellboard No. 3 Board Kiln Dryer 12/15/82	None	None
24/7/52 P 2 A	Natural Gas or Propane #5 Raymond Mill (BH-2) 12/15/82	0.479 0.43	1.78 ^{10.15}
24/7/52 P 2 A	w/BH Waste Board Reclaim System (BH-6) 9/25/82	0.32	1.40
A016-56235	Cogeneration Turbines (Project is conditionally set to begin in 1985)	5.74	11.232

Permit No. A016-31838 #1 Wet End Exhaust, Permit No. A016-31840 #1 Center Exhaust, and Permit No. A016-31843 #1 Dry Exhaust cover sources located in our No.1 Board Line which was permanently placed out of service in 1981.

24/7/52 AC 16-54547 6/2/82 Waste Board Reclaim Sys. VE? (11204)
8/5/52 exp. 12/3/82 code

~~9300~~ From 1:43 PM →
1/16/64

David Kosciellina:

mill to the #3 Board Plant Storage Bin
1000 Ton bin

→ 77951

hot storage bin from the mill

#4 bin

Existing:

2 Board lines #2
#3

#4 stucco bins is the only one being used
#3 & #4 are interconnected

replace #4 shaker baghouse @ 3000
with #3

#4 feeds #2 Board Line ^{via} #2 Stucco bin
#3 → #3 Board Line ^{via} #3 Stucco bin
1,000'
6000 cfm →

Need to know:

Actual PM ↑ from each 1.
2.

Change in PM emissions after removal of the 3000 ACFM
baghouse from storage bin #4

Any emission ↑ since 8/7/77

Mill — #3 & #4 stucco bins

now — 3000 CFM shaker type dust coll.

~~now~~ now existing system 40 TPH — to #2 boardline

Mod — Remove shaker, mod & seal tops of #3 & #4 bins & install 6000 CFM B.H.

A016-51598
all surveyor
B.H. permits

#3 board line — 1000^T Stucco bin — now 5140 CFM B.H. (1.83 TPY)

Add surveyor line + 6000 CFM B.H. M // (6.419 TPY)

60 TPH permitted under A016-61665 — no change but surveyor will inc. air flow.

A016-61665
12/15/82 — 11/30/87
Amend.

Total —
2 — Service Pulse Air
B.H. — 6000 CFM
@ 6" H₂O — 99.96%

3 Feb — Fri
8 AM —

8760 Hours
Actual - 1979 Curtailed 17.8 Days 1980 Curtailed 15 days

Emissions in Tons Per Year

Source	TSP	SO ₂	CO	NO _x	H/C as C/H ₄						TSP	SO ₂	CO	NO _x	H/C as CH ₄
Stock Pile Fugitive (F) (SIC) 1492	68.50	0	0	0	0							0	0	0	
Paper Mill (Boilers)(C) (SIC 2632) 80 x 10 ⁶ BTU/Hr.	7.70 (P) 0	27.88 0	6.14 0	65.39 0	1.35 0							27.88 0	6.14 0	65.39 0	
6 Kettles (SIC 3275) 60 x 10 ⁶ BTU/Hr. (R. Mills & Convey Included)	5.77 (P) 50.89	20.90 0	5.34 0	30.29 0	2.25 0							20.90 0	5.34 0	30.29 0	
No. 1 Board (SIC 3275) 50 x 10 ⁶ BTU/Hr.	4.82 (P) 1.11	17.42 0	4.45 0	25.25 0	1.88 0		Shut Down Source					0 0	0 0	0 0	
No. 2 Board (SIC 3275) 60 x 10 ⁶ BTU/Hr.	5.77 (P) 3.07	20.90 0	5.34 0	30.29 0	2.25 0							20.9	5.34	30.29	
Rock Dryer (SIC 3275) 8.0 x 10 ⁶ BTU/Hr.	0.71 (P) 8.04	2.79 0	0.71 0	4.03 0	0.29 0		Modified Source Increase to 20.0 x 10 ⁶ BTU/Hr. Permit Limited - 8324 Hrs.					6.62	1.68	9.57	
No. 7 Kettle (SIC 3275) 30 x 10 ⁶ BTU/Hr.	0 (P) 0	0 0	0 0	0 0	0 0		New Source Permit Limited - 8324 Hrs.					10.32	2.55	14.5	
No. 3 Board (SIC 3275) 127 x 10 ⁶ BTU/Hr.	0 (P) 0	0 0	0 0	0 0	0 0		New Source Permit Limited - 8324 Hrs.					0.32	10.59	4.12	
DOWTHERM (SIC 3275) 20 x 10 ⁶ BTU/Hr.	1.93 (P) 0	6.97 0	1.78 0	10.10 0	0.75 0							6.97	1.78	10.10	
SUB-TOTALS	(F) 68.50 (C) 26.70 (P) 63.11														
TOTAL PLANT	158.31	96.86 ✓	23.76 ✓	165.35 ✓	8.77 ✓							93.91 ✓	33.42 ✓	164.26 ✓	
							NET CHANGE					-2.95	+9.66	-1.09	

NON - ATTAINMENT - OFF SETS PROVIDED (PERMIT ISSUED)

NON - ATTAINMENT FOR VOC (PERMIT ISSUED)

(F) = Fugitive
(C) = Combustion
(P) = process

P 408 530 354

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Mr. D. J. Nootens	
Street and No. 6825 Evergreen Ave.	
P.O., State and ZIP Code Jacksonville, FL 32206	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 11/16/83	

PS Form 3800, Feb. 1982

PS Form 3811, Jan. 1979

● SENDER: Complete items 1, 2, and 3.
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
 Show to whom and date delivered.....¢
 Show to whom, date and address of delivery.....¢
 RESTRICTED DELIVERY
 Show to whom and date delivered.....¢
 RESTRICTED DELIVERY.
 Show to whom, date, and address of delivery \$ ____
 (CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
 Mr. D. J. Nootens
 6825 Evergreen Avenue
 Jacksonville, FL 32206

3. ARTICLE DESCRIPTION:
 REGISTERED NO. | CERTIFIED NO. | INSURED NO.
 | P408530354 |
 (Always obtain signature of addressee or agent)

I have received the article described above.
 SIGNATURE Addressee Authorized agent
Paul D. Dauterive

4. DATE OF DELIVERY
 11-17-83

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: _____ CLERK'S INITIALS _____

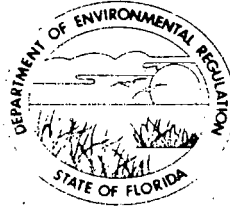
RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

FL ST
 POSTMARK
 11 1983

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

November 16, 1983

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. D. J. Nootens, Works Manager
U.S. Gypsum Company
6825 Evergreen Avenue
Jacksonville, Florida 32206

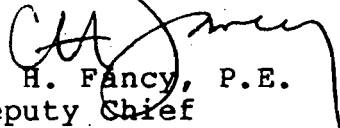
Dear Mr. Nootens:

Your applications for construction permits (AC 16-77951 and 16-77233) have been transferred from the Jacksonville Bio-Environmental Services Division Office for processing according to our division of responsibility. Based on our initial review of your proposals, the applications have been determined to be incomplete. The information required to complete the applications is described below.

1. Two different operating times have been listed in each application: 24 hrs/day, 7 days/week, 52 wks/year, in application section II, E and 8320 hr/yr in Addendum A. Please indicate which operation time is intended since it will be a permit limitation.
2. Submit a table which includes all the particulate matter emission sources at your existing site with their emissions in tons per year. The table also should include sources that have construction permits but have not begun operation.

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Sincerely,


C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality
Management

CHF/BK/s

cc: Jerry E. Woosley, City of Jacksonville
Johnny Cole, NE District

DEPARTMENT OF HEALTH, WELFARE
& BIO-ENVIRONMENTAL SERVICES
Bio-Environmental Services Division
Air and Water Pollution Control

November 7, 1983



DER

NOV 08 1983

BAQM

Mr. Clair Fancy, P.E.
Deputy Bureau Chief
Central Air Permitting Section
Dept. of Environmental Regulation
2600 Blairstone Road
Tallahassee, Florida 32301

Re: U.S. Gypsum Modification Permit Applications

Dear Mr. Fancy:

Enclosed are the captioned permit applications which are being forwarded to your agency for processing pursuant to the guidelines currently available to Bio-Environmental Services Division (BESD). Please note that the application concerning the modification to the 1000 ton Stucco Bin was inadvertently entered into the APIS system at the Northeast District Office. The PATS sheet is enclosed for your records.

The application and processing fee for the #3 and #4 Stucco Bins should be processed in the normal manner.

If you have any further questions concerning this matter, please advise.

Very truly yours,

Jerry E. Woosley
Assistant Engineer

JEW/vj
Enclosure

cc: Mr. Doug Dutton - DER



UNITED STATES GYPSUM COMPANY //

Post Office Box 3197/Jacksonville, Florida 32206-0197 //

November 1, 1983

DER

NOV 8 1983

BAQM



Mr. Jerry Woosley
Department of Health, Welfare, and Bio-Environmental Services
Air & Water Pollution
515 W. 6th Street
Jacksonville, Fla. 32206

Dear Mr. Woosley:

Enclosed is our application for a modification of our Permit A016-51598.
Also enclosed is our application fee of \$100.00.

Very truly yours,

David Koscielniak

David Koscielniak
Project Engineer

DK:jw

Encls.

STATE OF FLORIDA

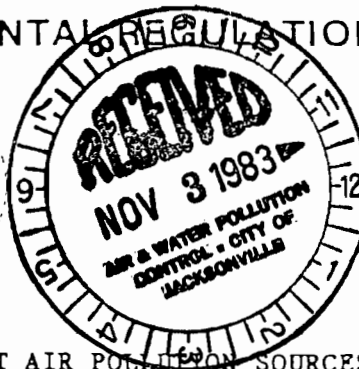
DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHEAST DISTRICT DER

3426 BILLS ROAD JACKSONVILLE, FLORIDA 32209

NOV 8 1983

BAQM



BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

G. DOUG DUTTON DISTRICT MANAGER

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Air Pollution [] New¹ [X] Existing¹

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

COMPANY NAME: United States Gypsum Company COUNTY: Duval

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)

SOURCE LOCATION: Street 6825 Evergreen Avenue City Jacksonville

UTM: East 4 38 900 North 33 61 200

Latitude 30° 22' 52"N Longitude 81° 38' 01"W

APPLICANT NAME AND TITLE: Daniel J. Nootens, Works Manager

APPLICANT ADDRESS: 6825 Evergreen Avenue Jacksonville, Florida 32208

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of United States Gypsum Co.

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

*Attach letter of authorization

Signed: Daniel J. Nootens

Daniel J. Nootens, Works Manager Name and Title (Please Type)

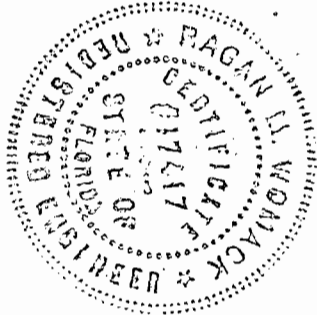
Date: 10-28-83 Telephone No. 904 768-2501

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

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

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

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



Signed Ragan M. Womack

Ragan M. Womack
Name (Please Type)

United States Gypsum Company
Company Name (Please Type)

Post Office Box 3197 Jax., Fl. 32206
Mailing Address (Please Type)

Florida Registration No. 17417 Date: 10-28-83 Telephone No. 904 768-2501

SECTION II: GENERAL PROJECT INFORMATION

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

This project involves modifying the dust collection system for No.3 and No.4 stucco bins in order to use No.3 bin for the proposed parallel airveyor line. The 3000 CFM shaker type dust collector on No.4 bin (B1-G) will be removed and a 6000 CFM Seneca pulse air dust collector will be installed atop No.3 bin. This project will result in full compliance.

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

Start of Construction November 15, 1983 Completion of Construction October 15, 1984

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

Total cost includes 6000 CFM baghouse dust collector, motor, starter, associated ducting and installation. Total control system cost \$22,500. Cost to remove dust collector atop No.4 bin and modify and seal tops of No.3 and No.4 bins is \$11,000.

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

Permit No. A016-51598 covers all airveyor dust collectors. Permit issued March 2, 1982; Permit expires January 31, 1987.

E. Requested permitted equipment operating time: hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
if power plant, hrs/yr _____ ; if seasonal, describe: Not seasonal, but dependent on
business fluctuations.

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

1. Is this source in a non-attainment area for a particular pollutant? No.
 - a. If yes, has "offset" been applied? _____
 - b. If yes, has "Lowest Achievable Emission Rate" been applied? _____
 - c. If yes, list non-attainment pollutants. _____
2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. No
3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. No
4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? No
5. Do "National Emission Standards for Hazardous Air Pollutants"
(NESHAP) apply to this source? No
- H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? Yes
 - a. If yes, for what pollutants? Particulates
 - 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 justifi-
cation for any answer of "No" that might be considered questionable.

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Ground Calcined Gypsum	Particulate	.0056	140,000	
(CaSO ₄ - ½ H ₂ O)				

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

1. Total Process Input Rate (lbs/hr): 140,000 *See addendum

2. Product Weight (lbs/hr): 140,000

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

Name of Contaminant	Emission ¹		Allowed Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Particulate	1.543	6.419		1.543	3086	12838	

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.

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

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Seneca 140IM8	Gypsum	99.95		Design

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
None.			

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ BTU/gal

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

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

Annual Average _____ Maximum _____

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

All dust returned to process.

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

Stack Height: 50 ft. Stack Diameter: 15 in. ft.
 Gas Flow Rate: 5512 ACFM 4600 DSCFM Gas Exit Temperature: 175 °F.
 Water Vapor Content: 0 % Velocity: 75 FPS

SECTION IV: INCINERATOR INFORMATION

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

Description of Waste _____
 Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____
 Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____
 Manufacturer _____
 Date Constructed _____ Model No. _____

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

Stack Height: _____ ft. Stack Diameter: _____ Stack Temp. _____
 Gas Flow Rate: _____ ACFM _____ DSCFM* Velocity: _____ FPS

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

Type of pollution control device: Cyclone Wet Scrubber Afterburner
 Other (specify) _____

Brief description of operating characteristics of control devices: _____

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

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

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

Yes No

Contaminant	Rate or Concentration

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

Yes No

Contaminant	Rate or Concentration

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

Contaminant	Rate or Concentration

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

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

*Explain method of determining

Addendum B. to Permit Application for Air Pollution Source

Control Equipment Data

Manufacturer	Seneca
Type	Pulse Air Baghouse
Design Flow Rate	6000 CFM
Efficiency Rating at design capacity	99.95%
Pressure Drop	6"

Performance Parameters

Bag Pressure Drop	2"
Gas Flow Rate	5100 SCFM
Air to cloth Ratio	4.5 = 1
Bag Weave	Felt
Bag Material	Nomex
Gas Temperature, Inlet & Outlet	180°F
Pulse Air Pressure	100 PSIG

Addendum A to Permit Application for Air Pollution Source

Particulates From Baghouse

No.3 and No.4 Stucco Storage Bins Dust Collector

$$\begin{aligned} \text{Actual Emmissions: } & 6000 \text{ CFM} \times 60 \text{ min/hr} \times 0.03 \text{ grain/ft.}^3 \\ & \times 1 \text{ lb./7000 grain} = \underline{1.543 \text{ lb./hr.}} \\ & 1.543 \text{ lb./hr.} \times 8320 \text{ hr./yr.} \times 1 \text{ ton/2000 lb.} \\ & = \underline{6.419 \text{ ton/year}} \end{aligned}$$

$$\begin{aligned} \text{Potential Emmissions: } & 1.543 \text{ lb./hr.} \times 100\% / (100-99.95)\% = 3086 \text{ lb./hr.} \\ & 3086 \text{ lb./hr.} \times 8320 \text{ hr./yr.} \times 1 \text{ ton/2000 lb.} \\ & = 12838 \text{ ton/year} \end{aligned}$$

Process Weight

Stucco conveyed from mill at 40 TPH via existing system and stucco conveyed from mill at 30 TPH via proposed system. Total = 30 + 40 = 70 TPH

Product Weight

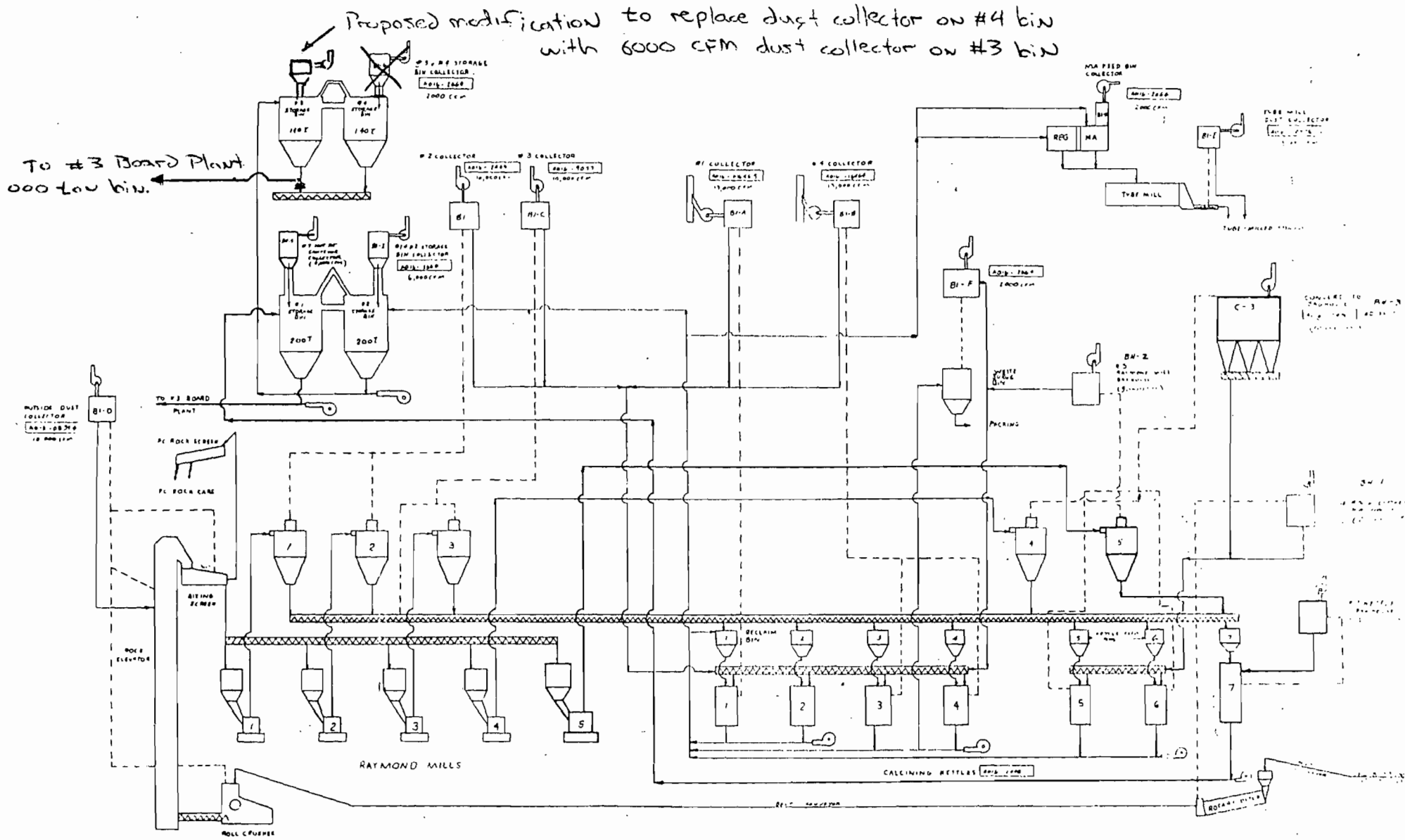
Stucco conveyed to No.2 board line at 40 TPH and to No.3 board line at 30 TPH. Total = 30 + 40 = 70 TPH

Gas Flow Rate

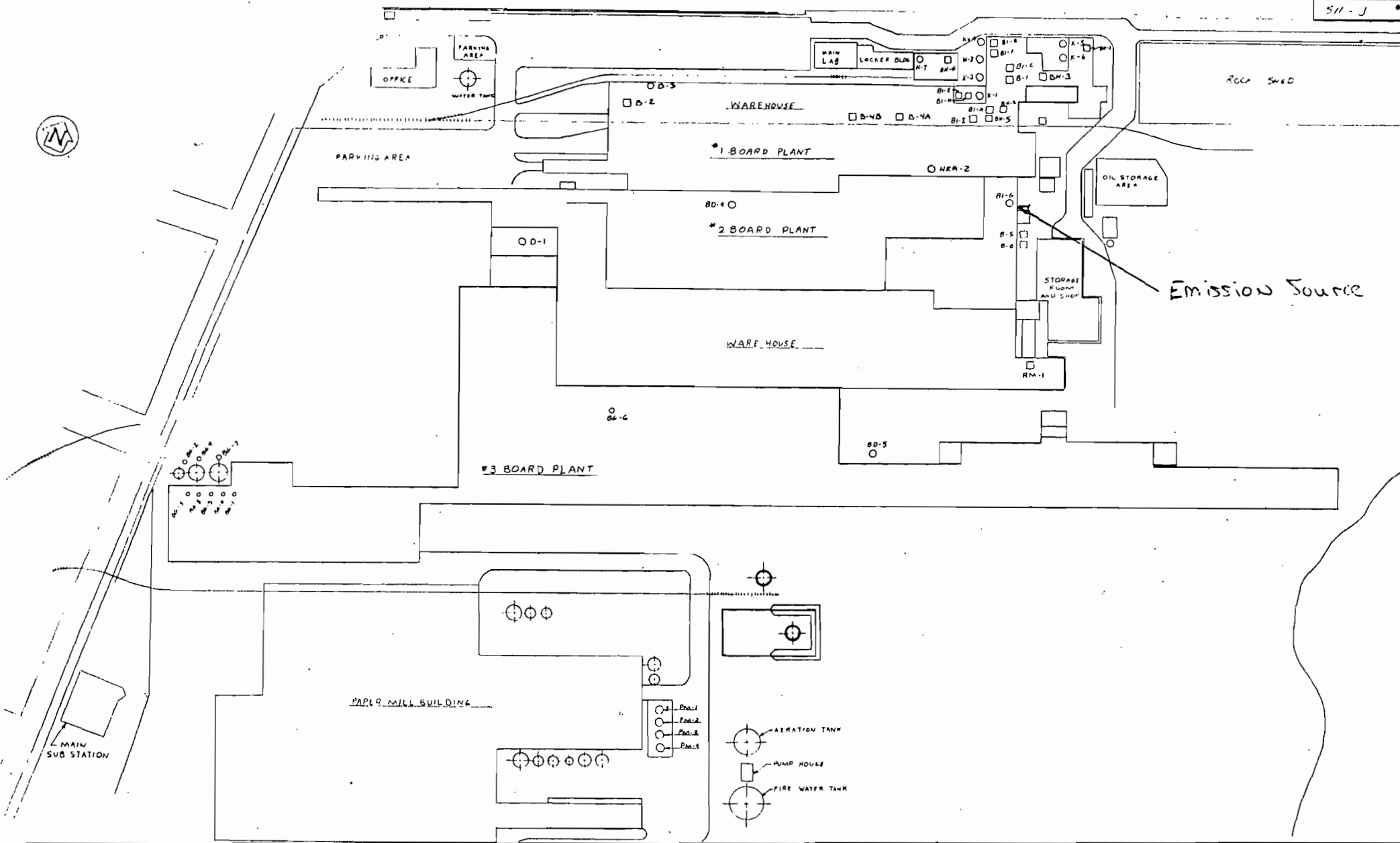
Standard 4600 SCFM

$$\text{Actual: } (4600) \left(\frac{.0750 \text{ lb/cf @ } 70^\circ\text{F}}{.0626 \text{ lb/cf @ } 175^\circ\text{F}} \right) = 5512 \text{ ACFM}$$

$$\text{Velocity } \frac{5512 \text{ ACFM}}{\left(\frac{15}{12 \times 2} \right)^2 \times \pi} = 4494$$

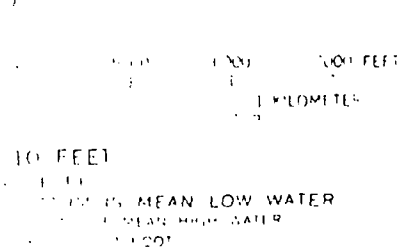
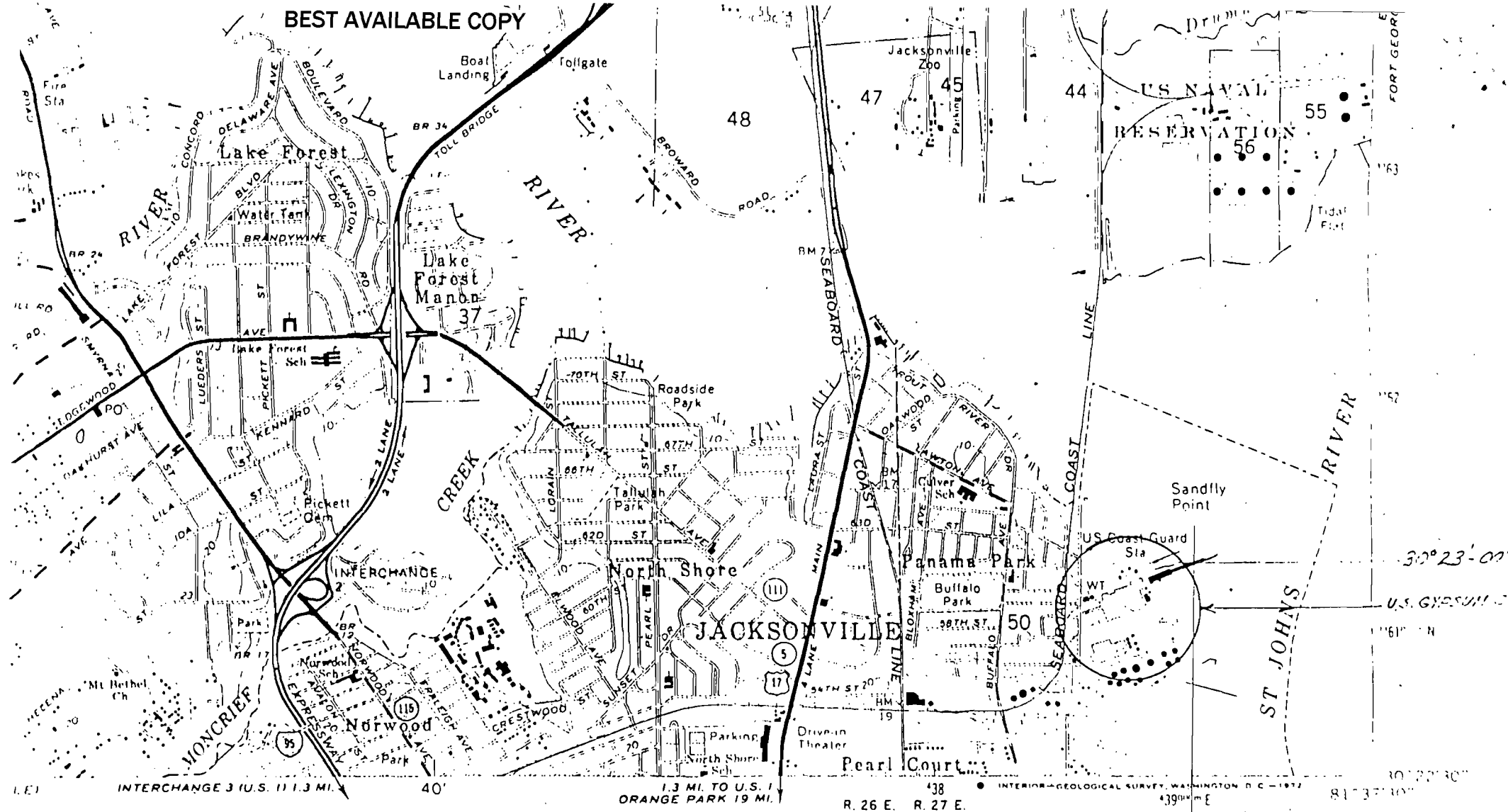


NO.	DESCRIPTION	DATE	BY	REVISION
1	DESIGNED BY W.F. WILLIAMS	1-17-51	W.F. WILLIAMS	1
2	DESIGNED BY S.M. ALLEN	2-28-51	S.M. ALLEN	2
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PREPARED BY CHECKED BY APPROVED BY	DATE 11/1/65 7/20/65	DRAWN BY S.M. HICKS	TITLE AIR POLLUTION SOURCES	PROJECT NO. 511-J	CLIENT UNITED STATES GYPSUM CO. CHICAGO, ILL. JACKSONVILLE, FLA.	REVISIONS 1 REV. 1
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BEST AVAILABLE COPY



- ROAD CLASSIFICATION
- Heavy-duty ——— Light duty - - - - -
 - Medium-duty - - - - - Unimproved dirt
 - Ⓜ Interstate Route Ⓜ U. S. Route ○ State Route

TROUT RIVER, FLA.

N 3022 54--W 8137 54

1964

PHOTOGRAPHED BY
AMS 4644 1187 SEP 1964

U.S. GEOLOGICAL SURVEY
WASHINGTON, D. C. 20242
THIS MAP IS AVAILABLE ON REQUEST

UNITED STATES GYPSUM COMPANY

JACKSONVILLE, FL

PLANT DISBURSEMENT ACCOUNT

THE NORTHERN TRUST COMPANY
PAYABLE AT
NORTHERN TRUST BANK - NAPERVILLE
NAPERVILLE, ILLINOIS

No 005329

DATE NOVEMBER 2, 1983

AMOUNT

\$100.00

PAY TO THE
ORDER OF

Florida Dept. Of Environmental Regulations

UNITED STATES GYPSUM COMPANY
AUTHORIZED SIGNATURE

J.C. Cooper
USG 50723 REV 11/82

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No 76005

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from United States Gypsum Company Date November 8, 1983

Address 6885 Evergreen Ave. Jacksonville FL 32208 Dollars \$ 100.00

Applicant Name & Address Same as above

Source of Revenue _____

Revenue Code 001 001 Application Number AC 16-77951

By Patricia B. Adams