



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

February 13, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. E. O. Morris, Environmental Manager
Gardinier, Inc.
8813 Highway 41 South
Riverview, Florida 33569

Re: Hillsborough County - A.P.
Gardinier, Inc. (AC 29-162375)
Sulfur Storage and Handling System

Dear Mr. Morris:

The Department is in receipt of your letter dated August 13, 1990 requesting an amendment to the expiration date of the above referenced permit. The Department will extend the permit expiration date to allow additional time for construction and compliance testing.

Expiration Date Change:

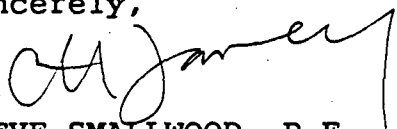
From: April 1, 1991
To: December 1, 1991

Attachment to be Added:

- Gardinier's letter received December 27, 1990.

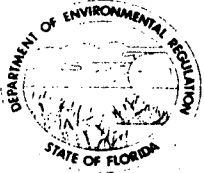
All other conditions remain as issued. This letter must be attached to construction permit AC 29-162375, and shall become a part of that permit.

Sincerely,


10Y STEVE SMALLWOOD, P.E.
Director
Division of Air Resources
Management

SS/MB/plm

c: Bill Thomas, SW Dist.
Jerry Campbell, EPCHC



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Steve Smallwood
FROM: Clair Fancy
DATE: February 12, 1991
SUBJ: Amendment to Construction Permit AC 29-162375
Gardinier, Inc.

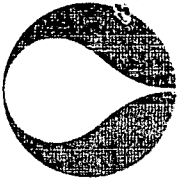
*I signed
CWJ*

Attached for your approval and signature is a letter extending the expiration dates for the above referenced construction permit.

The Bureau recommends approval of this amendment.

CF/MB/plm

Attachment



**CARGILL
FERTILIZER, INC.**

8813 Highway 41 South - Riverview, Florida 33569 - Telephone 813-677-9111 - TWX 810-876-0648 - Telex 52666 - FAX 813-671-6146

August 26, 1991

CERTIFIED MAIL: 723 750 655

Mr. Clair H. Fancy
Division of Air Resources Management
Florida State Department of
Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Fl 32399-2400

*Original letter
& 3 copies sent
to SW Dist.
8-30-91
PA*

RE: Cargill Molten Sulfur Storage & Handling
Performance Testing
(Construction Permit: AC29-162375)

Dear Mr. Fancy:

Please find enclosed the Certificate of Completion of Construction, as well as results of performance testing conducted in conformance with the subject construction permit that was submitted to your office on March 13, 1989. The submission of the Certificate of Completion of Construction and appropriate county and state processing fees constitutes submission of an application to operate.

The performance tests were conducted on August 24, 1991 in accordance with the July 1, 1988, version of 40 CFR 60 Appendix A, using EPA Method 9 for visible emissions. Testing was conducted while the sulfur pits and storage tanks were being filled.

The results of the tests show the facility to be well within the fifteen percent opacity standard during ship unloading events.

Should you or members of your staff have additional questions, please contact my office.

Sincerely,

Wesley C. Sassaman, MPH, REM
Environmental Specialist

cc: D. Graziani, HCEPC
B. Thomas, FLDER
D. Jellerson
O. Morris

Checks (DER:577081130; HCEPC:577081216)
P-15

RECEIVED

AUG 29 1991

Division of Air
Resources Management



Performance Test

For the

Cargill Fertilizer, Inc.

Molten Sulfur Storage and Handling System
(Permit No.: AC29162375)

Conducted By: Cargill Fertilizer, Inc.
Environmental Dept.

Process Description

The Cargill Fertilizer, Inc. molten sulfur storage and handling system consists of a large ship unloading dock, two 18,000 tonne (LT-Tanks 2 & 3), one 10,000 tonne (LT-Tank 1), one covered 145 tonne (LT-Pit 9) sulfur pit and two covered 115 tonne (LT-Pits 7 & 8) sulfur pits, and the associated transfer pumps and piping. The molten sulfur system is located at the Cargill facility in Riverview, near Tampa, Hillsborough County, Florida.

Process Operational Data

Date: August 24, 1991

Period of Testing: 1600 - 1740 Hrs

Unit Tested: Sulfur Storage and Handling System

Location : Cargill Fertilizer, Inc.

8813 HWY 41 South

Riverview, Fl 33569

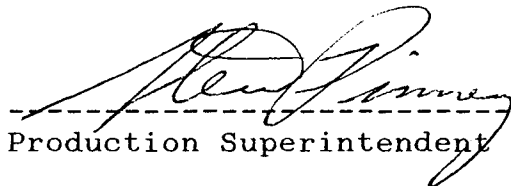
Sulfur Unloading and Consumption Rates:

Ship Unloading Rate : 1100 TPH

No. 7 Pit Utilization Rate: 15.2 TPH

No. 8 Pit Utilization Rate: 33.8 TPH

No. 9 Pit Utilization Rate: 20.9 TPH



Production Superintendent

VISIBLE EMISSION OBSERVATION FORM

No.

COMPANY NAME
Cargill Fertilizer, Inc.

STREET ADDRESS
8813 Hwy 41 S.

CITY
River view

STATE
Fl.

ZIP
33569

PHONE (KEY CONTACT)

SOURCE ID NUMBER

PROCESS EQUIPMENT
Sulfur Tank 1

OPERATING MODE

CONTROL EQUIPMENT

OPERATING MODE

DESCRIBE EMISSION POINT
Tank Vent

HEIGHT ABOVE GROUND LEVEL
30'

HEIGHT RELATIVE TO OBSERVER
Start **30'** End **30'**

DISTANCE FROM OBSERVER
Start **150'** End **150'**

DIRECTION FROM OBSERVER
Start **East** End **East**

DESCRIBE EMISSIONS

Start **none** End **none**

EMISSION COLOR
Start **none** End **none**

IF WATER DROPLET PLUME
Attached **N/A** Detached

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
Start **East stack** End **East stack**

DESCRIBE PLUME BACKGROUND

Start **Grey sky** End **Grey sky**

BACKGROUND COLOR
Start **Grey** End **Grey**

SKY CONDITIONS
Start **cloudy** End **cloudy**

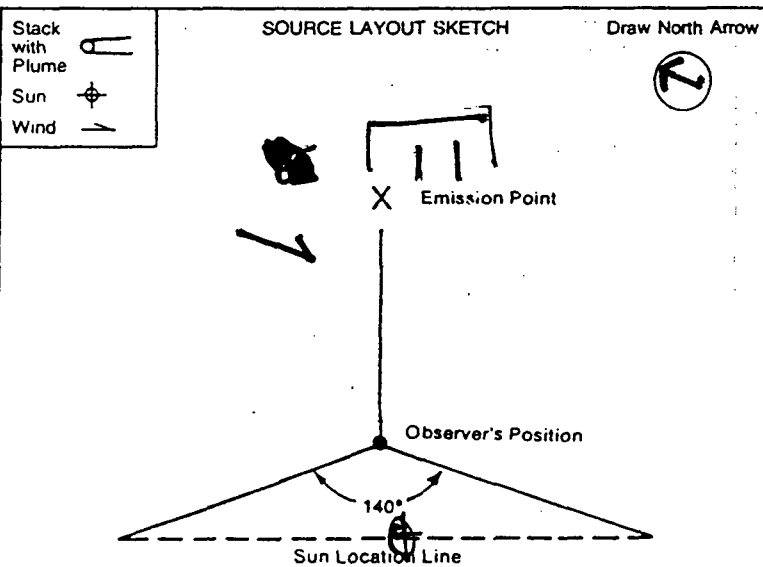
WIND SPEED
Start **3-5 mph** End **3-5 mph**

WIND DIRECTION
Start **SSW** End **SSW**

AMBIENT TEMP
Start **85°F** End **85°F**

WET BULB TEMP
40

RH, percent



OBSERVATION DATE		START TIME		END TIME	COMMENTS
8/24/91		4:00pm		9:30pm	
SEC	0	15	30	45	
MIN					
1	0	0	5	0	
2	0	0	0	0	
3	0	5	0	0	
4	0	0	0	0	
5	0	0	0	5	
6	0	0	0	0	
7	5	5	0	0	
8	0	0	0	5	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	5	0	
13	0	0	0	0	
14	5	0	0	0	
15	0	0	0	5	
16	0	0	0	0	
17	0	5	5	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	5	5	0	0	
24	0	0	0	0	
25	5	0	0	0	
26	0	5	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	5	0	0	

OBSERVER'S NAME (PRINT)
Wesley Sassaman

OBSERVER'S SIGNATURE
Wesley Sassaman

DATE
8/24/91

ORGANIZATION
Cargill Fertilizer

CERTIFIED BY
EIA

DATE
2/28/91

ADDITIONAL INFORMATION

CONTINUED ON VEO FORM NUMBER

VISIBLE EMISSION OBSERVATION FORM

No.

COMPANY NAME
Cargill Fertilizer

STREET ADDRESS
883 Hwy 41 S.

CITY
River View

STATE
Fl.

ZIP
33569

PHONE (KEY CONTACT)
W. Sassaman

SOURCE ID NUMBER

PROCESS EQUIPMENT
Sulfur Tank 2

OPERATING MODE

CONTROL EQUIPMENT

OPERATING MODE

DESCRIBE EMISSION POINT
Tank Vent

HEIGHT ABOVE GROUND LEVEL
60'

HEIGHT RELATIVE TO OBSERVER
Start *60'* End *60'*

DISTANCE FROM OBSERVER
Start *300'* End *300'*

DIRECTION FROM OBSERVER
Start *East* End *East*

DESCRIBE EMISSIONS

Start *none* End *none*

EMISSION COLOR
Start *none* End *none*

IF WATER DROPLET PLUME
Attached *N/A* Detached

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
Start *Exit Vent* End *Exit Vent*

DESCRIBE PLUME BACKGROUND

Start *Grey Sky* End *Grey Sky*

BACKGROUND COLOR
Start *Grey* End *Grey*

SKY CONDITIONS
Start *cloudy* End *cloudy*

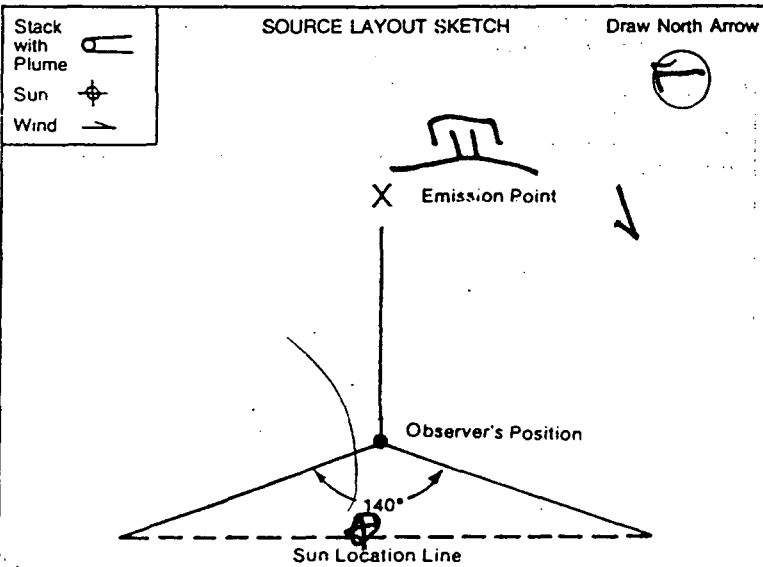
WIND SPEED
Start *3-5 mph* End *3-5 mph*

WIND DIRECTION
Start *Western* End *Western*

AMBIENT TEMP
Start *85°F* End *85°F*

WET BULB TEMP
40

RH, percent
40



ADDITIONAL INFORMATION

OBSERVATION DATE		START TIME				END TIME
8/24/91		4:52				5:22 pm
SEC	0	15	30	45	COMMENTS	
MIN						
1	0	0	0	0	Tank 2	
2	0	0	0	0	Simultaneous	
3	0	0	0	0	with Tank 3	
4	0	0	0	0		
5	0	0	0	0		
6	0	0	0	0		
7	0	0	0	0		
8	0	0	0	0		
9	0	0	0	0		
10	0	0	0	0		
11	0	0	0	0		
12	0	0	0	0		
13	0	0	0	0		
14	0	0	0	0	Rain	
15	0	0	0	0	Wind shift to	
16	0	0	0	0	ENE	
17	0	0	0	0		
18	0	0	0	0		
19	0	5	0	0		
20	0	0	0	0		
21	0	0	0	0		
22	0	0	0	0		
23	0	0	0	0		
24	0	0	0	0		
25	0	0	0	0		
26	0	0	0	0		
27	0	0	0	0		
28	0	0	0	0		
29	0	0	0	0		
30	0	0	0	0		

OBSERVER'S NAME (PRINT)
Wes Sassaman

OBSERVER'S SIGNATURE
Wesley Sassaman

DATE
8/24/91

ORGANIZATION
Cargill Fertilizer, Inc

CERTIFIED BY
ETA

DATE
8/28/91

CONTINUED ON VEO FORM NUMBER

VISIBLE EMISSION OBSERVATION FORM

No.

COMPANY NAME
Cargill Fertilizer

STREET ADDRESS
8813 Hwy 41 S.

CITY
River View

STATE
FL

ZIP
33569

PHONE (KEY CONTACT)
Wes Sassaman

SOURCE ID NUMBER

PROCESS EQUIPMENT
Boiler Tank 3

OPERATING MODE

CONTROL EQUIPMENT

OPERATING MODE

DESCRIBE EMISSION POINT
Tank Vent

HEIGHT ABOVE GROUND LEVEL
30'

HEIGHT RELATIVE TO OBSERVER
Start *30'* End *30'*

DISTANCE FROM OBSERVER
Start *300'* End *300'*

DIRECTION FROM OBSERVER
Start *East* End *East*

DESCRIBE EMISSIONS

Start *none* End *none*

EMISSION COLOR
Start *none* End *none*

IF WATER DROPLET PLUME
Attached *N/A* Detached

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
Start *exit stack* End *exit stack*

DESCRIBE PLUME BACKGROUND

Start *Grey Sky* End *Grey Sky*

BACKGROUND COLOR
Start *Grey* End *Grey*

SKY CONDITIONS
Start *cloudy* End *cloudy*

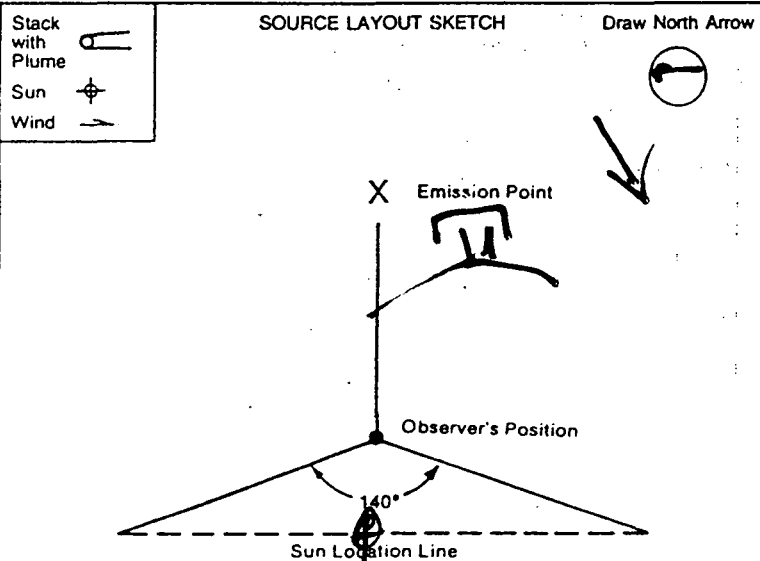
WIND SPEED
Start *3-5 mph* End *3-5 mph*

WIND DIRECTION
Start *SSW* End *SSW*

AMBIENT TEMP
Start *85°F* End *85°F*

WET BULB TEMP
40

RH, percent
40



ADDITIONAL INFORMATION

OBSERVATION DATE		START TIME		END TIME	
<i>8/24/91</i>		<i>4:52</i>		<i>5:22 PM</i>	
SEC	0	15	30	45	COMMENTS
MIN					
1	0	0	0	0	<i>Tank 3</i>
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	<i>Main wind shift to</i>
15	0	0	0	0	
16	0	0	0	0	<i>ENE</i>
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	5	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT)
Wesley Sassaman

OBSERVER'S SIGNATURE
Wesley Sassaman

DATE
8/24/91

ORGANIZATION
Cargill Fertilizer

CERTIFIED BY
ETA

DATE
2/28/91

CONTINUED ON VEO FORM NUMBER

VISIBLE EMISSION OBSERVATION FORM

No. FL101

COMPANY NAME
Cargill Fertilizer, Inc.

STREET ADDRESS
8813 Hwy. 41 South

CITY
Riverview STATE
FL ZIP
33569

PHONE (KEY CONTACT)
(813) 671-6248 SOURCE ID NUMBER

PROCESS EQUIPMENT
Sulfur Ship OPERATING MODE

CONTROL EQUIPMENT
Hold Vents OPERATING MODE

DESCRIBE EMISSION POINT
Round stack

HEIGHT ABOVE GROUND LEVEL
70 feet HEIGHT RELATIVE TO OBSERVER
Start *70 feet* End *70 feet*

DISTANCE FROM OBSERVER
Start *200 feet* End *200 feet* DIRECTION FROM OBSERVER
Start *East* End *East*

DESCRIBE EMISSIONS
Start *Not Visible* End *Not Visible*

EMISSION COLOR
Start *Not Visible* End *Not Visible* IF WATER DROPLET PLUME
Attached *N/A* Detached

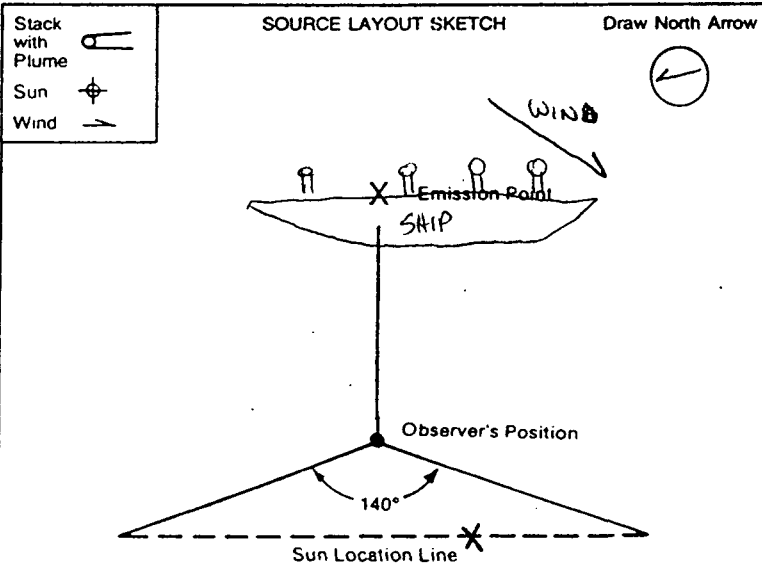
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
Start *1 ft. above stack exit* End *1 ft. above stack exit*

DESCRIBE PLUME BACKGROUND
Start *Sky - Cloudy* End *Sky - Cloudy*

BACKGROUND COLOR
Start *Gray* End *Gray* SKY CONDITIONS
Start *Overcast* End *Overcast*

WIND SPEED
Start *5-10 mph* End *5-10 mph* WIND DIRECTION
Start *NW* End *NW*

AMBIENT TEMP
Start *87 °F* End *87 °F* WET BULB TEMP
40 RH, percent



OBSERVATION DATE		START TIME		END TIME	COMMENTS
8/24/91		1600		1630	
SEC	0	15	30	45	
MIN					
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT)
Daniel Kowal

OBSERVER'S SIGNATURE
[Signature] DATE
8/24/91

ORGANIZATION
Cargill Fertilizer, Inc.

CERTIFIED BY
ETA - Tampa DATE
2/28/91

ADDITIONAL INFORMATION

VISIBLE EMISSION OBSERVATION FORM

No. FL 100

COMPANY NAME
Cargill Fertilizer, Inc.

STREET ADDRESS
8813 Hwy. 41 South

CITY
Riverview

STATE
FL

ZIP
33569

PHONE (KEY CONTACT)
813-671-6248

SOURCE ID NUMBER

PROCESS EQUIPMENT
Sulfur Pit - #7 CAP

OPERATING MODE

CONTROL EQUIPMENT
Covers

OPERATING MODE

DESCRIBE EMISSION POINT
Rectangular sulfur pit

HEIGHT ABOVE GROUND LEVEL
3 feet

HEIGHT RELATIVE TO OBSERVER
Start **3 ft.** End **3 ft.**

DISTANCE FROM OBSERVER
Start **60 ft.** End **60 ft.**

DIRECTION FROM OBSERVER
Start **East** End **East**

DESCRIBE EMISSIONS

Start **looping** End **looping**

EMISSION COLOR
Start **White** End **White**

IF WATER DROPLET PLUME
Attached **N/A** Detached

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
Start **2 ft. over pit** End **2 ft. over pit**

DESCRIBE PLUME BACKGROUND

Start **Machinery** End **Machinery**

BACKGROUND COLOR
Start **Gray** End **Gray**

SKY CONDITIONS
Start **Overcast** End **Overcast**

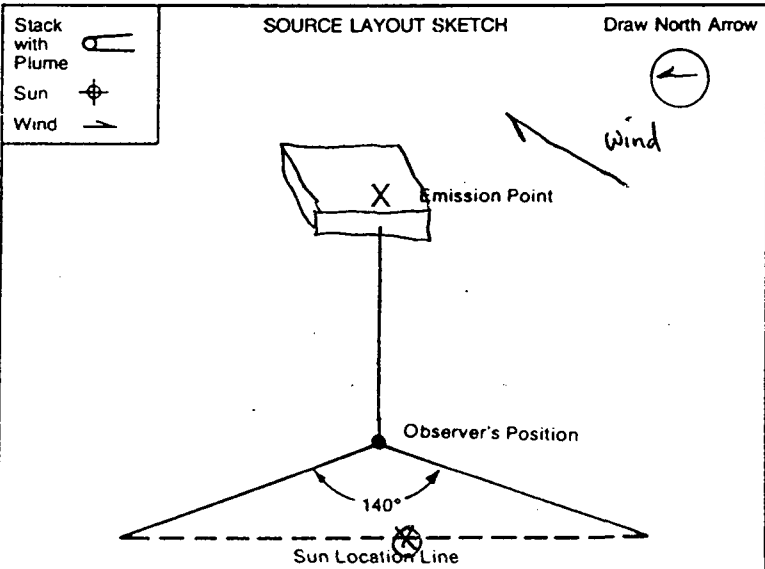
WIND SPEED
Start **5-10 mph** End **5-10 mph**

WIND DIRECTION
Start **NW** End **NW**

AMBIENT TEMP
Start **87°F** End **87°F**

WET BULB TEMP
40

RH, percent



OBSERVATION DATE		START TIME		END TIME	COMMENTS
8/24/91		1635		1705	
SEC	0	15	30	45	MIN
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	5	0	0	
6	0	0	0	5	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT)
Daniel Kowal

OBSERVER'S SIGNATURE

DATE
8/24/91

ORGANIZATION
Cargill Fertilizer, Inc.

CERTIFIED BY
ETA - Tampa

DATE
2/28/91

ADDITIONAL INFORMATION

CONTINUED ON VEO FORM NUMBER

VISIBLE EMISSION OBSERVATION FORM

No. FL102

COMPANY NAME
Cargill Fertilizer, Inc.

STREET ADDRESS
8813 Hwy 41 South

CITY
Riverview STATE
FL ZIP
33569

PHONE (KEY CONTACT)
813-671-6248 SOURCE ID NUMBER

PROCESS EQUIPMENT
Sulfur Pit # 8 CAP OPERATING MODE

CONTROL EQUIPMENT
Covers OPERATING MODE

DESCRIBE EMISSION POINT
Square Sulfur Pit

HEIGHT ABOVE GROUND LEVEL
1 foot HEIGHT RELATIVE TO OBSERVER
Start **1 ft.** End **1 ft.**

DISTANCE FROM OBSERVER
Start **20 ft.** End **20 ft.** DIRECTION FROM OBSERVER
Start **East** End **East**

DESCRIBE EMISSIONS
Start **Not Visible** End **Not Visible**

EMISSION COLOR
Start **N/A** End **N/A** IF WATER DROPLET PLUME
Attached **N/A** Detached

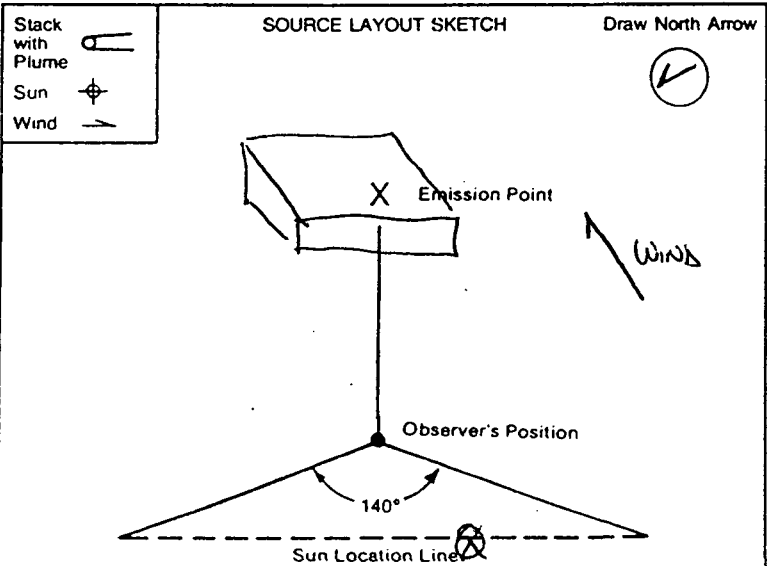
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
Start **One foot over pit** End **One foot over pit**

DESCRIBE PLUME BACKGROUND
Start **Concrete** End **Concrete**

BACKGROUND COLOR
Start **Tan** End **Tan** SKY CONDITIONS
Start **Overcast** End **Overcast**

WIND SPEED
Start **5-10 mph** End **5-10 mph** WIND DIRECTION
Start **West** End **West**

AMBIENT TEMP
Start **87°F** End **87°F** WET BULB TEMP
100 RH, percent



OBSERVATION DATE		START TIME			END TIME
8/24/91		1710			1740
SEC	0	15	30	45	COMMENTS
MIN					
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT)
Daniel Kowal

OBSERVER'S SIGNATURE
[Signature] DATE
8/24/91

ORGANIZATION
Cargill Fertilizer, Inc.

CERTIFIED BY
ETA - Tempo DATE
2/28/91

ADDITIONAL INFORMATION

VISIBLE EMISSION OBSERVATION FORM

No. _____

COMPANY NAME		
STREET ADDRESS		
CITY	STATE	ZIP
PHONE (KEY CONTACT)	SOURCE ID NUMBER	

PROCESS EQUIPMENT	OPERATING MODE
CONTROL EQUIPMENT	OPERATING MODE

DESCRIBE EMISSION POINT

HEIGHT ABOVE GROUND LEVEL	HEIGHT RELATIVE TO OBSERVER
	Start End
DISTANCE FROM OBSERVER	DIRECTION FROM OBSERVER
Start End	Start End

DESCRIBE EMISSIONS

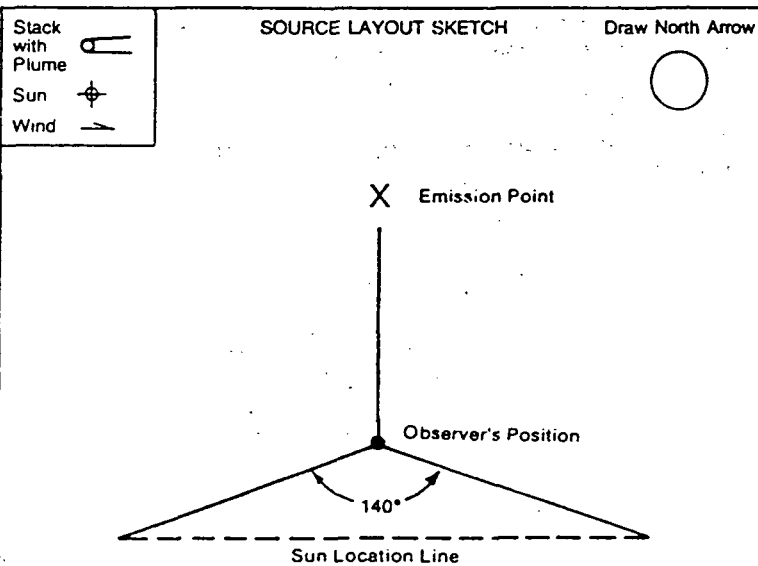
Start End

EMISSION COLOR	IF WATER DROPLET PLUME
Start End	Attached <input type="checkbox"/> Detached <input type="checkbox"/>
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	
Start End	

DESCRIBE PLUME BACKGROUND

Start End

BACKGROUND COLOR	SKY CONDITIONS	
Start End	Start End	
WIND SPEED	WIND DIRECTION	
Start End	Start End	
AMBIENT TEMP	WET BULB TEMP	RH, percent
Start End		



OBSERVATION DATE		START TIME			END TIME	COMMENTS
SEC	MIN	0	15	30	45	
1						
2						
3						
4						
5						
6						
7						
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25						
26						
27						
28						
29						
30						

OBSERVER'S NAME (PRINT) _____

OBSERVER'S SIGNATURE _____ DATE _____

ORGANIZATION _____

CERTIFIED BY _____ DATE _____

ADDITIONAL INFORMATION

CONTINUED ON VEO FORM NUMBER _____

VISIBLE EMISSION OBSERVATION FORM

No. _____

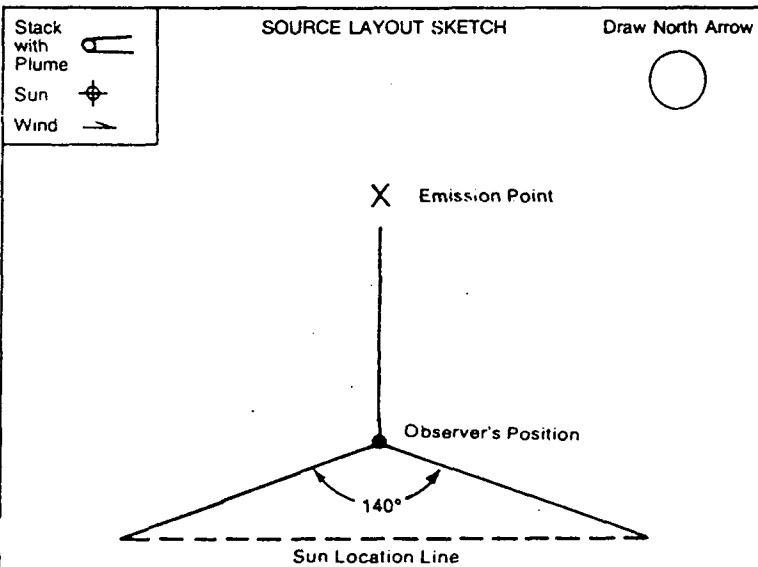
COMPANY NAME		
STREET ADDRESS		
CITY	STATE	ZIP
PHONE (KEY CONTACT)	SOURCE ID NUMBER	

PROCESS EQUIPMENT	OPERATING MODE
CONTROL EQUIPMENT	OPERATING MODE

DESCRIBE EMISSION POINT	
HEIGHT ABOVE GROUND LEVEL	HEIGHT RELATIVE TO OBSERVER Start End
DISTANCE FROM OBSERVER Start End	DIRECTION FROM OBSERVER Start End

DESCRIBE EMISSIONS	
Start End	IF WATER DROPLET PLUME Attached <input type="checkbox"/> Detached <input type="checkbox"/>
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED Start End	

DESCRIBE PLUME BACKGROUND	
Start End	BACKGROUND COLOR
Start End	SKY CONDITIONS
Start End	WIND SPEED
Start End	WIND DIRECTION
Start End	AMBIENT TEMP
Start End	WET BULB TEMP RH, percent



OBSERVATION DATE		START TIME			END TIME	COMMENTS
SEC	MIN	0	15	30	45	
1						
2						
3						
4						
5						
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8						
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26						
27						
28						
29						
30						

OBSERVER'S NAME (PRINT)	
OBSERVER'S SIGNATURE	DATE
ORGANIZATION	
CERTIFIED BY	DATE

ADDITIONAL INFORMATION

CONTINUED ON VEO FORM NUMBER							
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VISIBLE EMISSION OBSERVATION FORM

No.

COMPANY NAME
CARGILL FERTILIZER, INC.

STREET ADDRESS
8813 U.S. Hwy. 41, South

CITY
Riverview STATE
FL ZIP
33569

PHONE (KEY CONTACT) SOURCE ID NUMBER

PROCESS EQUIPMENT
9CAP Sulfur Pit OPERATING MODE

CONTROL EQUIPMENT
COVERS OPERATING MODE

DESCRIBE EMISSION POINT
covers above concrete pit

HEIGHT ABOVE GROUND LEVEL
1 ft HEIGHT. RELATIVE TO OBSERVER
Start **1 ft** End **1 ft**

DISTANCE FROM OBSERVER
Start **20 ft** End **20 ft** DIRECTION FROM OBSERVER
Start **East** End **East**

DESCRIBE EMISSIONS

Start **none** End **none**

EMISSION COLOR
Start **NA** End **NA** IF WATER DROPLET PLUME
Attached Detached

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
Start **Pit cover** End **Pit cover**

DESCRIBE PLUME BACKGROUND

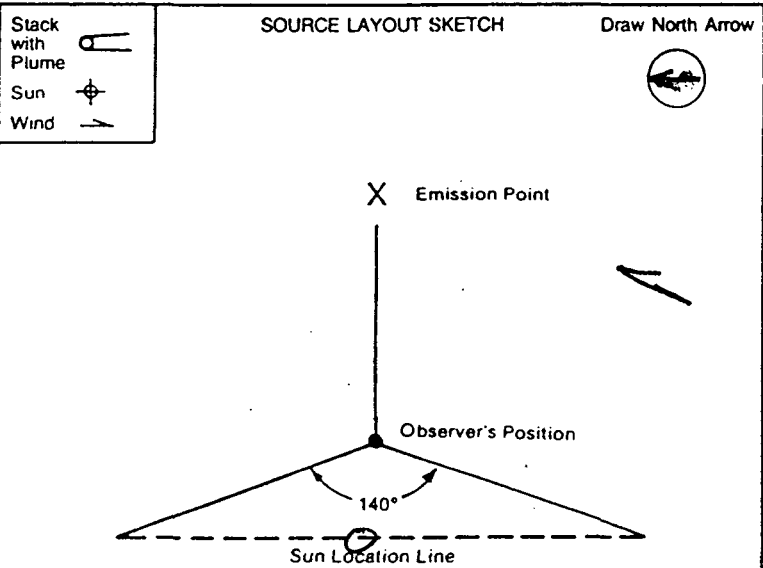
Start **Grey Equipment** End **Grey Equipment**

BACKGROUND COLOR
Start **grey** End **grey** SKY CONDITIONS
Start **overcast** End **overcast**

WIND SPEED
Start **8-10** End WIND DIRECTION
Start **SW** End

AMBIENT TEMP WET BULB TEMP RH, percent

Start End



OBSERVATION DATE		START TIME				END TIME
8/24/91		1705				1735
SEC	0	15	30	45	COMMENTS	
MIN						
1	0	0	0	0		
2	0	0	0	0		
3	0	0	0	0		
4	0	0	0	0		
5	0	0	0	0		
6	0	0	0	0		
7	0	0	0	0		
8	0	0	0	0		
9	0	0	0	0		
10	0	0	0	0		
11	0	0	0	0		
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14	0	0	0	0		
15	0	0	0	0		
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18	0	0	0	0		
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25	0	0	0	0		
26	0	0	0	0		
27	0	0	0	0		
28	0	0	0	0		
29	0	0	0	0		
30	0	0	0	0		

OBSERVER'S NAME (PRINT)
David B. Jellerson

OBSERVER'S SIGNATURE
David B. Jellerson DATE
8/24/91

ORGANIZATION
Cargill Fertilizer, Inc

CERTIFIED BY
ETA DATE
8/28/91

ADDITIONAL INFORMATION

CONTINUED ON VEO FORM NUMBER