K

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF AIR POLLUTION CONTROL
SOURCE INSPECTION REPORT FORM

I. GENERAL INFORMATION

SOURCE NAME: Pier IX - Cement COUNTY NO: 2120

REGISTRATION NO: 60979 AQCR: 223 AIR PROGRAM CODE: 0

PLANT ID: 0071 SOURCE CONTACT DURING INSPECTION: Roger Doll

SOURCE LOCATION: Harbor Road, Newport News

SOURCE CLASSIFICATION (CIRCLE ALL APPLICABLE ONES) A1 (A2) B

INSPECTION DATE: 92590 NEXT INSPECTION: 93092

II. INSPECTION INFORMATION

INSPECTING OFFICER: K. Pinzel STAFF PERS. CODE: 063

WEATHER CONDITIONS: clear

REASONS FOR INSPECTION:

_____ SCHEDULED INSPECTION _____ COMPLAINT INVESTIGATION

_____ PERMIT REVIEW _____ EQUIPMENT MALFUNCTION

__✓__ OTHER Permit Completion

III. INSPECTION RESULTS

INSPECTION LEVEL(S) PERFORMED: 0 1 (2) 3 4 COMPLIANCE STATUS: CODE: 3

VISIBLE EMISSION EVALUATION PERFORMED: ☑ (YES) ☐ (NO)

IF YES, ☑ IN COMPLIANCE ☐ OUT OF COMPLIANCE

NESHAPS REQUIREMENTS MET: ☐ YES ☐ NO ☑ N/A

TOXICS EVALUATION: ☐ COMPLETED ☐ CONDITIONS VERIFIED

☐ IN PROGRESS ☐ RECOMMENDED ☑ NOT RECOMMENDED

OPERATING RATE: above 100% (which is 700 tons/hr) at 1100 tons/hr.

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CODING INFORMATION

AIR PROGRAM CODE
- 0 - SIP SOURCE
- 1 - SIP SOURCE UNDER FEDERAL JURISDICTION
- 5 - OTHER
- 6 - PSD
- 8 - NESHAPS
- 9 - NSPS
- c - CLOSED DOWN/INACTIVE

COMPLIANCE STATUS
- 0 - UNKNOWN
- 1 - IN VIOLATION - NO SCHEDULE
- 2 - IN COMPLIANCE BY SOURCE TEST
- 3 - IN COMPLIANCE BY INSPECTION
- 4 - IN COMPLIANCE BY CERTIFICATION
- 5 - IN VIOLAITON, MEETING SCHEDULE
- 6 - IN VIOLATION, NOT MEETING SCHEDULE
- 7 - IN VIOLATION, UNKNOWN WITH RESPECT TO SCHEDULE
- 8 - NO APPLICABLE STATE REGULATION
- 9 - IN COMPLIANCE, CLOSED DOWN

IV. COMMENTS

Cement is off loaded from the ship from the cargo holds in stages in order to keep the ship from listing. In order to minimize cave-ins and the resultant dust emissions, the operator should maintain a more or less uniform depth of cement within a hold as he withdraws cement Some cave-ins are inevitable however because the loader arm can not reach underneath overhanging decks (the hold doors do not reach to the edge of the hold). When the depth of cement is too shallow for the loader arm to pick-up, they drop a baby front end loader into the hold to scoop cement into a steel box; the loader arm dips into the box. Without doubt, the ship-off loading is the weak link in the whole process as far as dust emissions.

The baghouses had no visible emissions. They plan to post the acceptable pressure drops near each baghouse magnehelic gauge so operators will recognize problems early. I asked that they record pressure drops daily for each operating baghouse.

There were no visible emissions from any point except the conveyor slack assembly. They feel that this will not be a problem after they replace the mechanical splice in the belt with a vulcanized splice. This was not possible to do until after the belt stopped stretching. With the new splice, the belt cleaner will do a better job and there should be less of a dust problem. Also, spillage off the belt due to excessive loading has supposedly caused some of the problem. This is being addressed.

The loading of piggies (tanker trucks) is virtually dust free. Some dust does drop from the loader after it is retracted but this is seen as unavoidable.

INSPECTOR'S SIGNATURE: K Penzel DATE: 12-19-90

REVIEWING AUTHORITY COMMENTS: _____

_____

_____

_____

_____

REVIEWING AUTHORITY SIGNATURE: Frank Daniel DATE: 12/19/90

VIRGINIA DEPARTMENT OF AIR POLLUTION CONTROL
VISIBLE EMISSION EVALUATION RECORD

DATE 9-25-90

COMPANY Pier IX - Cement

REGISTRATION NO 60979

LOCATION Harbor Road, Newport News

EMISSION POINT NAME Silo Baghouse

HEIGHT TO DISCHARGE POINT 200' est

OBSERVER K. Pinzel

CERTIFICATION EXPIRATION 10-1-90

CLOCK TIME: INITIAL 10 : 30 (AM)/PM FINAL 10 : 48 (AM)/PM

VISIBLE EMISSION READINGS

HR	MIN	SECONDS 0	15	30	45	STEAM PLUME CHECK IF APPLICABLE DET	ATT	COMMENT
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
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	21							
	22							
	23							
	24							
	25							
	26							
	27							
	28							
	29							

HR	MIN	SECONDS 0	15	30	45	STEAM PLUME CHECK IF APPLICABLE DET	ATT	COMMENT
10	30	0	0	0	0			
	31							
	32							
	33							
	34							
	35							
	36							
	37							
	38							
	39							
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	42							
	43							
	44							
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	47							
	48	↓	↓	↓	↓			
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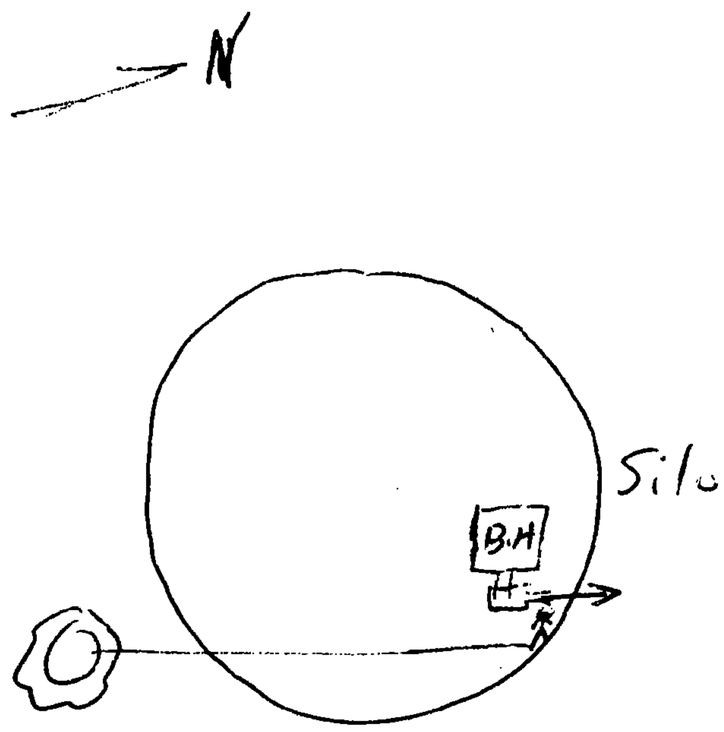
	54							
	55							
	56							
	57							
	58							
	59							

	INITIAL	FINAL
OBSERVER LOCATION		
DISTANCE TO DISCHARGE	5'	
DIRECTION TO DISCHARGE	W	
HEIGHT OF OBSERVATION PT	200' est	
BACKGROUND DESCRIPTION	Sky	
WEATHER CONDITIONS		
WIND DIRECTION		
WIND SPEED	10	
AMBIENT TEMPERATURE	70°	
SKY CONDITIONS	clear	
PLUME DESCRIPTION		
COLOR	None	
DISTANCE VISIBLE	0	

DIAGRAM OF OBSERVER AND EMISSION POINT



COMMENTS

Cement being loaded at rate of 700 - 1100 tons/hr.

OBSERVER SIGNATURE: K Pingel

REGIONAL DIRECTOR'S SIGNATURE: R. C. Cuffe

SOURCE: Pier IX Cement REGISTRATION NO: 60974 DATE: 9/25/90
PAGE 2

PROCESS EQUIPMENT: MATERIAL BALANCE Y ___ / N ___

PROCESS UNIT	PERMIT LIMITS	IN USE?	OPERATING RATE	CONTROL DEVICE	PARAMETERS OBSERVED	VISIBLE EMISSION/ COMMENTS
Siwertel		yes	1100 tons/hr	B.H.	$\Delta P = 20$ mm H_2O	0% opacity
		"	"	"	$\Delta P = 1.5-2.0$	"
Transfer C-13 to	C-14	"	"	"	$\Delta P =$	"
Transfer C-14 to	Bucket	"	"	"	$\Delta P =$	"
Transfer bucket	to silo	"	"	"	$\Delta P = 1.5$	"
Silo		"	"	"	$\Delta P = 1.6$	"
Loadout to Piggy		"			$\Delta P = 1.6$	"

CONTINUOUS EMISSION MONITORS:

STACK MONITORED	PARAMETER	MAKE	MODEL	READINGS		AVERAGING INTERVAL	LAST AUDIT	ZERO OK?	SPAN OK?
				INSTANT	AVERAGED				

CONSTRUCTION ACTIVITY OBSERVED: _____
DATE BEGUN: _____ EST. COMPLETION: _____ ACTUALLY COMP.: _____
PERMIT? Y ___ / N ___ NEEDS PERMIT? Y ___ / N ___ FORMS LEFT? Y ___ / N ___
COMMENTS: _____

OUT OF COMPLIANCE: NOV ISSUED: Y ___ / N ___ (IF BY MAIL, DATE) _____
RECOMMENDED ENFORCEMENT ACTION: _____

ADDITIONAL INFORMATION NEEDED TO DETERMINE COMPLIANCE STATUS: _____

INSPECTOR'S SIGNATURE: _____ DATE: 12/18/90

SOURCE: _____ REGISTRATION NO: _____ DATE: _____

FUEL BURNING EQUIPMENT:

REFERENCE/UNIT NO.				
MANUFACTURER				
MBTU/HR				
FUEL				
STEAM CAPACITY				
% S				
STEAM PRES. (PSIG)				
#FUEL/HR				
#STEAM/HR				
FLUE GAS TEMP. F				
% O2				
% CO2				
FEED WATER PRES./TEMP.	/	/	/	/
SUPER HEAT PRES./TEMP.	/	/	/	/
CONTROL DEVICE PRESSURE DROP/ACFM	/	/	/	/
OPACITY %				
OPERATING RATE				

INCINERATION:
MAKE & MODEL: _____ RATED/PERMIT CAPACITY: _____
OPERATING RATE: _____
TYPE WASTE BEING BURNED: _____
PRIMARY TEMPERATURE: _____ THERMOSTAT SETTING: _____
SECONDARY TEMPERATURE: _____ THERMOSTAT SETTING: _____
TIMER SETTING: _____ CLEANOUT STATUS: _____
COMMENT: _____

FUGITIVE EMISSIONS:

SOURCE	TYPE	OPACITY	CONTROL MEASURES	CONTROL EFFECTIVENESS	COMMENTS

OCR

The following pages contain the Optical Character Recognition text of the preceding scanned images.

COMMONWEALTH OF VIRGINIA At?
DEPARTMENT OF AIR POLLUTION CONTROL
SOURCE INSPECTION REPORT FORM

I. GENERAL INFORMATION

SOURCE NAME: f'l Lg /,Y\ - ce m en t COUNTY NO:

REGISTRATION NO: [6ic)lql_n AQCR: AIR PROGRAM CODE: IZI

ILI IC) 1-7[fl
PLANT ID: SOURCE CONTACT DURING INSPECTION: 1@ci,-u, r- 2) e

2
SOURCE LOCATION: 'oa@t'

SOURCE CLASSIFICATION (CIRCLE ALL APPLICABLE ONES) Al (B

INSPECTION DATE: 1 1,1121 NEXT INSPECTION: I I -'I 13 lo 11

II. INSPECTION INFORMATION

INSPECTING OFFICER: p;V1 z 0 STAFF PERS. CODE:

WEATHER CONDITIONS:

REASONS FOR INSPECTION:

SCHEDULED INSPECTION COMPLAINT INVESTIGATION

PERMIT REVIEW EQUIPMENT MALFUNCTION

OTHER

III. INSPECTION RESULTS

INSPECTION LEVEL(S) PERFORMED: 0 1 3 4 COMPLIANCE STATUS: CODE: F3@

VISIBLE EMISSION EVALUATION PERFORMED: Er (YES) R (NO)

IF YES, ErIN COMPLIANCE F-1 OUT OF COMPLIANCE

F@ F]
NESHAPS REQUIREMENTS MET: YES NO N/A

TOXICS EVALUATION: F-1 COMPLETED CONDITIONS VERIFIED

F-1 IN PROGRESS RECOMMENDED NOT RECOMMENDED

OPERATING RATE: ZVO

CODING INFORMATION
AIR PROGRAM CODE COMPLIANCE STATUS
0 - SIP SOURCE 0 - UNKNOWN
1 - SIP SOURCE UNDER FEDERAL JURISDICTION I - IN VIOLATION - NO SCHEDULE
5 - OTHER 2 - IN COMPLIANCE BY SOURCE TEST
6 - PSO 3 - IN COMPLIANCE BY INSPECTION
8 - NESHAPS 4 - IN COMPLIANCE BY CERTIFICATION
9 - NSPS 5 - IN VIOLAITON, MEETING SCHEDULE
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Cement is off loaded from the ship from the cargo holds in stages in order to keep the ship from listing. In order to minimize cave-ins and the resultant dust emissions, the operator should maintain a more or less uniform depth of cement within a hold as he withdraws cement Some cave-ins are inevitable however because the loader arm can not reach underneath overhanging decks (the hold doors do not reach to the edge of the hold). When the depth of cement is too shallow for the loader arm to pick-up, they drop a baby front end loader into the hold to scoop cement into a steel box; the loader arm dips into the box. Without doubt, the ship-off loading is the weak link in the whole process as far as dust emissions.

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INSPECTOR'S SIGNATURE: DATE: 1171-ILV4.)

REVIEWING AUTHORITY COMMENTS:

REVIEWING AUTHORITY SIGNATURE: DATE:
X,

"v,AGINIA DEPARTMENT OF AIR POLLUI A CONTROL
VISIBLE EMISSION EVALUAT10N RLCORD
DATE

COMPANY C eol e vi'f REGISTRATION NO 0"? 7c
El Eta
LOCATION & /I /) I 05
'dX43",e
EMISSION POINT NAME HEIGHT TO DISCHARGE POINT

OBSERVER CERTIFICATION EXPIRATION
k PIU

PM PM
CLOCK TIME: INITIAL FINAL

VISIBLE EMISSION READINCS

STEAM PLUHE STEAM PLUME
SECONDS HECK IF APPLICABLE SECONDS CHECK IF APPLICABLE

IIR KIN 0 15 30 45 ETATT COMMENT IAR KIN 0 15 30 145 DETATT COMMENT

o 6 30 C,
0

1 31

2 32

3 33

4 34

5 35

6 36

7 37

8 38

9 39

10 0

12 2 1
13 3

14 4

15 5

16 (46

17 7

6 8J
19 (t 9

20 50

21 51 1
22 52

23 53

24 54

25 55

26 56

27 57

28 58

29 59

IN.LfIAL FINAL
DIAGRAM OF OBSERVER AND EKISSION POINT
69SERVER LOCATTON
DISTANCE TO DISCHARGE
DIRECTION TO DISCHARCE
IIEIGHT OF OBSERVATION PT 2 OC
BACKGROUND DESCRIPTION

WEATHER CONDITIONS
WIND DIRECTION
WIND SPEED
AMBIENT TEMPERATURE 700
SKY CONDITIONS
cle4 r-

PLUME DESCRIPTION
COLOR lilbn e-
DISTANCE VISIBLE 0

COMHENTS

;2.0 c)
('c- m c- @elk,?a Aaweel a--@ ral-e 7'Ll 0//7

OBSERVER SIGNATURE:

RECIONAL DIRECTOR'S SIGNATURE
..... .

@/2
SOURCE: /361e, - J x cemen REGISTRATION NO: 6oq74 DATE:

PAGE 2 f

PROCESS EQUIPMENT: MATERIAL BALANCE Y N

PROCESS PERMIT IN OPERATING CONTROL PARAMETERS VISIBLE EMISSION/

UNIT LIMITS USE? RATE DEVICE OBSERVED COMMENTS

e -s lloo 4 f' Aja
9, @/ - @y

L 7@, c 06C

-Trl"43kr A&,t(kef1v

Loawo@i@ -12 Apz

ICONTINUOUS EMISSION MONITORS:

READINGS
STACK AVERAGING IAST ZERO SPAN
MONITORED PARRAMETER MAKE MODEL INSTANT AVERAGED INTERVAL AUDIT OK? OK?

CONSTRUCTION ACTIVITY OBSERVED:
DATE BEGUN: EST. COMPLETION: ACTUALLY COMP.:
PERMIT? Y N NEEDS PERMIT? Y N FORMS LEFT? Y N
COMMENTS:

OUT OF COMPLIANCE: NOV ISSUED: Y N _ (IF BY MAIL, DATE)
RECOMMENDED ENFORCEMENT ACTION:

ADDITIONAL INFORMATION NEEDED TO DETERMINE COMPLIANCE STATUS:

INSPECTOR'S SIGNATURE: DATE:

SOURCE: REGISTRATION NO: DATE:

FUEL BURNING EQUIPMENT:

REFERENCE/UNIT NO.

MANUFACTURER

MBTU/HR

FUEL

STEAM CAPACITY

% s

STEAM PRES. (PSIG)

#FUEL/HR

#STEAM/HR

FLUE GAS TEMP. F

02

C02

FEED WATER PRES./TEMP.

SUPER HEAT PRES./TEMP.

CONTROL DEVICE
PRESSURE DROP/ACFM

OPACITY %

IOPERATING RATE

INCINERATION:
MAKE & MODEL: RATED/PERMIT CAPACITY:
OPERATING RATE:
TYPE WASTE BEING BURNED:
PRIMARY TEMPERATURE: THERMOSTAT SETTING:
SECONDARY TEMPERATURE: THERMOSTAT SETTING:
TIMER SETTING: CLEANOUT STATUS:
COMMENT:

FUGITIVE EMISSIONS:

CONTROL CONTROL
SOURCE TYPE OPACITY MEASURES EFFECTIVENESS COMMENTS