

C CONTROL OF THE CONT

DEPARTMENT OF THE NAVY

NAVAL SUPPORT ACTIVITY SOUTH POTOMAC 6509 SAMPSON ROAD, SUITE 217 DAHLGREN, VIRGINIA 22448-5108

IN REPLY REFER TO

5090 Ser PRSI41FH/23

FEB 2 5 2014

CCB Reports
c/o Mr. Edward M. Dexter, Administrator
Solid Waste Program, Suite 605
Maryland Department of the Environment
1800 Washington Blvd
Baltimore, MD 21230-1719

SOLID WASTE

MAR 0 5 2014

PROGRAM

Dear Mr. Dexter:

Naval Support Facility Indian Head (NSFIH) is submitting the attached Coal Combustion Byproducts (CCB) Annual Generator Tonnage Report for Calendar Year 2013 (Enclosure 1). Also, included you will find Laboratory Analysis Results (Enclosure 2) and a Calculations Sheet (Enclosure 3).

Please mail all correspondence to:

ATTN: Director Environmental Division Department of Navy NAVFAC Washington, PWD South Potomac 3972 Ward Road, Suite 101 Indian Head, MD 20640-5157

If you have any questions or comments concerning this letter, please contact Mr. Dave Hoffman on (301) 744-1616.

Sincerely,

JEFREY C. BOSSART

By direction

Enclosure:

- (1) CCB Tonnage Report 2013
- (2) Laboratory Analysis Results
- (3) Calculations Sheet

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Land Management Administration • Solid Waste Program

1800 Washington Boulevard • Suite 605 • Baltimore Maryland 21230-1719

410-537-3315 • 800-633-6101 x3315 • www.mde.maryland.gov

Coal Combustion Byproducts (CCBs) Annual Generator Tonnage Report Instructions for Calendar Year 2013

SOLID WASTE

MAR 0 5 2014

PROGRAM

The following is general information relating to the requirement for reporting quantities of coal combustion byproducts (CCBs) that were managed in the State of Maryland during calendar year 2013. Please answer the questions on the form provided, attaching additional information and any requested supplemental information to the back of the form. Note that the form for this year requires both volume and weight of the CCBs produced. If you know one of these parameters but not the others, for example, you have the tonnage produced but not the volume, you may calculate the other parameter; however, please provide the calculations and assumptions that you used in your estimate. Questions can be directed to the Solid Waste Program at (410) 537-3315 or via email at ed.dexter@maryland.gov.

I. Background. This requirement that generators of CCBs submit an annual report was instituted in the Code of Maryland Regulations COMAR 26.04.10.08, that was promulgated effective December 1, 2008. The regulation requires that any non-residential generator of CCBs submit a report to the Department by March 1 of each year describing the manner in which CCBs generated within the State were managed during the preceding calendar year. Additional information and specific instructions follow. For more detailed information, please refer to COMAR 26.04.10.08.

II. General Information and Applicability.

A. Definitions. CCBs are defined in COMAR 26.04.10.02B as:

- "(3) Coal Combustion Byproducts. (a) "Coal combustion byproducts" means the residue generated by or resulting from the burning of coal.
- (b) "Coal combustion byproducts" includes fly ash, bottom ash, boiler slag, pozzolan, and other solid residuals removed by air pollution control devices from the flue gas and combustion chambers of coal burning furnaces and boilers, including flue gas desulfurization sludge and other solid residuals recovered from flue gas by wet or dry methods."

A generator of CCBs is defined in COMAR 26.04.10.02B as:

- "(9) Generator.
- (a) "Generator" means a person whose operations, activities, processes, or actions create coal combustion byproducts.
- (b) "Generator" does not include a person who only generates coal combustion byproducts by burning coal at a private residence."

31-Jan-14 TTY Users: 800-735-2258 Page 1 of 5
Printed on Recycled Paper

Facility Name: Naval Support Facility Indian Head CCB Tonnage Report – 2013

B. Applicability. If you or your company meets the definition of a generator of CCBs as defined above, you must provide the information as required below. For the purposes of this report, "you" shall hereinafter refer to the generator defined above. Please note that COMAR 26.04.10.08 requires generators of CCBs to submit an annual report to the Department concerning the disposition of the CCBs that they generated the previous year. THIS INCLUDES CCBS THAT WERE NOT SEPARATELY COLLECTED BUT WERE PRODUCED BY THE BURNING OF COAL AND WERE DIRECTLY CONTRIBUTED TO A PRODUCT, such as cement. Where the amount cannot be directly measured, estimates based on the amount of coal burned can be used. The method of determining the volume of CCBs produced must be described.

III. Required Information. The following information must be provided to the Department by March 1, 2014:

A. Contact information:		
Facility Name: Naval Support Facility India	an Head	longrafii (n. 2)
Name of Permit Holder: Naval Support Act	ivity South Potomac	
Facility Address: 3972 Ward Road, Suite 10	O1Street	
Facility Address: Indian Head City	Maryland State	20640 Zip
County: Charles	e villaegiaci, bis restuo	offeligraphy <u>("i</u> l
Contact Information (Person filing report or	Environmental Manager)	
Facility Telephone No.: 301-744-4705	Facility Fax No.: 301-744-	4180
Contact Name: Jeff Bossart	aga garagasa beker tebah dibir beker bigi da Oleh bir bir kecamatan dibir bir bir bir bir bir bir bir bir bir	
Contact Title: <u>Installation Environmental Programmental P</u>	rogram Manager	
Contact Address: 3972 Ward Road, Suite 19	O1 Street	
Contact Address: Indian Head City	Maryland State	20640 Zip
Contact Email: <u>Jeffrey.bossart@navy.mil</u>	agine the parties that the	(6)
Contact Telephone No.: 301-744-4705	Contact Fax No.: 301-744-	4180

For questions on how to complete this form, please contact the Solid Waste Program at 410-537-3315

31-Jan-14 TTY Users: 800-735-2258 Facility Name: Naval Support Facility Indian Head

B. A description of the process that generates the CCBs, including the type of coal or other raw material that generates the CCBs. If the space provided is insufficient, please attach additional pages:

Coal is utilized as a fuel source for operation of 3 boiler systems at the Goddard Steam Plant. Fly ash is generated as a combustion byproduct. Coal type is bituminous, modified stocker coal, 2" x 1/4" with certified analysis as follows: 5.66% moisture, 39.02% volatile matter (dry basis), 7.99% dry ash, 1.32% sulfur (dry basis) and 13,570 BTU (dry basis).

C. The volume and weight of CCBs generated during calendar year 2013, including an identification of the different types of CCBs generated and the volume of each type generated. If the space provided is insufficient, please attach additional pages in a similar format. If converting from volume to weight or weight to volume, please provide your calculations and assumptions.

<u>Table I: Volume and Weight of CCBs Generated for Calendar Year 2013:</u> Please note the change to this table from previous years, to include both the volume and weight of the types of CCBs your facility produces.

Volume	and Weight of CCBs Ge	enerated for Calendar Y	Vear 2013
D'annin			
Bituminous Type of CCB	Type of CCB	Type of CCB	Type of CCB
87,942 Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards	Volume of CCB, in Cubic Yards
1701		(Franks)	(200)
Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons	Weight of CCB, in Tons

Additional notes: NA

- D. Descriptions of any modeling or risk assessments, or both, conducted relating to the CCBs or their use that were performed by you or your company during the reporting year. Please attach this information to the report.
- E. Copies of all laboratory reports of all chemical characterizations of the CCBs. Please attach this information to the report.
- F. A description of how you disposed of or used your CCBs in calendar year 2013, identifying:
- (a) The types and volume of CCBs disposed of or used (if different than described in Paragraph C above) including any CCBs stored during the previous calendar year, the location of disposal, mine reclamation and use sites, and the type and volume of CCBs disposed of or used at each site:

All (100%) of CCB has been hauled and disposed at King George Landfill in King George County, VA. All CCB is from Goddard Steam Plant and consists of ash from coal combustion.

and (b) The different uses by type and volume of CCBs: NA

If the space provided is insufficient, please attach additional pages in a similar format.

- G. A description of how you intend to dispose of or use CCBs in the next 5 years, identifying:
- (a) The types and volume of CCBs intended to be disposed of or used, the location of intended disposal, mine reclamation and use sites, and the type and volume of CCBs intended to be disposed of or used at each site:

Over the next five years, Naval Support Facility Indian Head intends to dispose of all (100%) of CCB at King George Landfill in King George County, VA. All CCB will be from Goddard Steam Plant and consists of ash from bituminous coal combustion.

and (b) The different intended uses by type and volume of CCBs: NA

If the space provided is insufficient, please attach additional pages in a similar format.

31-Jan-14 TTY Users: 800-735-2258 Facility Name: Naval Support Facility Indian Head

IV. Signature and Certification. An authorized official of the generator must sign the annual report, and certify as to the accuracy and completeness of the information contained in the annual report:

This is to certify that, to the best of my knowledge, the information contained in this report and any attached documents are true, accurate, and complete.

| Jeffrey Bossart, Installation Environmental Program Manager, (301) 744-4705 |
| Name, Title, & Telephone No. (Print or Type) | Date |
| Jeffrey.bossart@navy.mil Your Email Address

V: Attachments (please list):

- 1. Laboratory analysis results for fly ash
- 2. Calculations sheet

ENUIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K . Sparks, Maryland 21152

410-472-1112

FINAL REPORT OF ANALYSES

International Chemstar Inc.

6931 Golden Ring Road

Baltimore, MD 21237

PROJECT NAME: ICI-13-0199

REPORT DATE: 14-Feb-13

REPORT NUMBER: 4478

LAB#- ECL027842-001 SAMPLE ID- NSWC Fly Ash

LOCATION-

DATE SAMPLED- 1/29/2013 TIME SAMPLED-

SAMPLER- S Carrier

DATE RECEIVED- 2/1/2013 DELIVERED BY- UPS

TIME RECEIVED- 12:14 RECEIVED BY- VPS

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE/TIME	ВУ	RESULT		DETECTION LIMIT
Ignitability	EPA 1030	2/5/2013 09:35	AAA	NonFlamm		
рН	EPA 9045D	2/14/2013 14:00	JRB	4.2	std units	0.1
TCLP Extraction	EPA 1311	2/3/2013 16:00	SES			
Arsenic	EPA 6010C	2/4/2013 14:09	CHK	< 0.030	mg/L	0.030
Barium	EPA 6010C	2/4/2013 14:09	CHK	0.191	mg/L	0.020
Cadmium	EPA 6010C	2/4/2013 14:09	CHK	0.005	mg/L	0.005
Chromium	EPA 6010C	2/4/2013 14:09	CHK	< 0.010	mg/L	0.010
Lead	EPA 6010C	2/4/2013 14:09	CHK	< 0.050	mg/L	0.050
Mercury	EPA 7470	2/5/2013 12:45	CHK	< 0.001	mg/L	0.001
Selenium	EPA 6010C	2/4/2013 16:07	CHK	< 0.050	mg/L	0.050
Silver	EPA 6010C	2/4/2013 14:09	CHK	< 0.010	mg/L	0.010



Company RIVER TRADING COMPANY **559 LIBERTY HILL CINCINNATI, OHIO 45202-6848**

Mineral Labs, Inc.

Box 549 Salyersville, Kentucky 41465 Phone (606) 349-6145 Certificate of Analysis

Lab No.

13074941

2655

Date Recd.

12/19/2013

Date Analyzed

12/19/2013

SAMPLE IDENTIFICATION AS SUPPLIED BY SAMPLER

SAMPLED BY *LAB

SAMPLED TYPE: AUTOMATIC

DOCKS CREEK CTC-0503 NAVFAC WASHINGTON INDIAN HEAD, MD CONTRACT # SPE600-13-D-0651 LINE ITEM # 0001 VARIOUS MINES 2" X 1/4" PRODUCT MERCURY - 0.10 PPM DRY CHLORINE - 1317 PPM DRY *OBSERVED AUTOMATIC SAMPLER

				•				
	% Moisture	% Ash %	Volatile	e % Fixed Carbon	% BTU	% Sulfu	r	
)	D3302	D3174	D3175	(Calculated)	D5865	D4239		
As Recd	5.66	7.54	36.81	49.99	12,802	1.25		
Dry Basis		7.99	39.02	52.99	13,570	1.32		
M.A.F.B.T.U (Calculated)					14,749			
			-F	USION TEMPERATURE OF- 1857-04	Reducing	Oxid	lizing	
Free Swelling D720-91	Index No.	xxx		initial	2580	°F	XXX	°F
Grindability I	ndex No.	45		Softening	2640	۰F	xxx	°F
	SCREEN/WET	SIEVE ANALYSIS						
SI	ZE 1	% WT. RETAI	NED	Hemispherical	2700+	°F	XXX	۰F
+ 2		3.15	*	Fluid	2700+	°F	XXX	٥F
2 X 1/4		90.69	% □	10	EIGHT DETER	RAINATION		
1/4 X 0		6.16	%	V	EIGHT DETER	MON		
				Average Light Draft	1'5.8	0"		

Average Light Draft

1'5.80

Average Loaded Draft

9'8.60"

Weight of Coal Loaded

1659.27

Tons

DRAFT READINGS TAKEN AND CALCULATED BY LAB PERSONNEL

100.00%

Submitted By

9124959

THIS DOCUMENT CANNOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF THE LABORATORY

Paul Lyon

an Head - Additional Information for 20	013 CCB Report			
CCB Type: Fly Ash from Coal Combustion				
Tons	Cu.Ft. *			
1701	87,09			
3959	202,701			
4729	242,125			
3320	169,984			
4672	239,206			
5585	285,952			
	% capacity			
22 Tons/Load				
80%				
	sh = 1126 cubic feet Ash/load			
1126 cubic feet/load * 1 load/22 to	ons = 51.2 cubic feet/ton			
Tons/year * 51.2 cubic feet/t	on = See Above Table			
of average density of fly ash of 2.3 g/g	em ³ reported in the following reference:			
s used in Concrete Manufacturing", 199				
3				
2.3 g/cm°				
m^3 kg l	(b) (29.6lb , Ton			
$(3.28 \text{ ft})^3$ 1000 g 2.2	$\frac{2 \text{Kg}}{2 \text{Kg}} = \left(\frac{1}{1000 \text{kg}} \right)^{-1}$			
ton				
Goddard Power Plant				
on				
OII				
	CCB Type: Fly As Tons 1701 3959 4729 3320 4672 5585 Tutilized during reporting period age vehicle tonnages, dimensions, and 22 Tons/Load 80% 1408 Cubic Feet 1408 Cubic Feet * 80% A 1126 cubic feet/load * 1 load/22 to Tons/year * 51.2 cubic feet/file of average density of fly ash of 2.3 g/g			