

#### EASTERN KENTUCKY UNIVERSITY

Serving Kentuckians Since 1906

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January 30, 2017

Mr. Eric Eisiminger, Regional Office Supervisor KY Division for Air Quality Frankfort Regional Office 300 Sower Blvd. 1st Floor Frankfort, KY 40601 U.S. EPA Region 4 Air Enforcement Branch Atlanta Federal Center 61 Forsyth St. SW Atlanta, GA 30303-8960

RE: Semi-Annual Monitoring Compliance Certification July through December, 2016 Eastern Kentucky University, Source ID No. 21-151-00007 Permit No. V-14-004

Dear Mr. Eisiminger,

As required by this facility's current air permit, we are submitting a semi-annual monitoring report certified by a responsible official. Attached please find supporting documentation to satisfy all reporting requirements of our Title V permit. My signature on this letter is my certification as warden of this facility.

We have indicated on the Semi-Annual Summary Report the data that has been maintained to meet permit requirements and have also provided much of it in the form of additional summary sheet attachments. The actual daily log sheets are archived in both hardcopy at our heat plant and as softcopy on a shared drive maintained by EKU Information Technology and can be made available upon request.

Please contact myself or Bill Rhodes, the Assistant Director of Environmental Compliance and Energy Management, if you have any questions.

Sincerely,

Paul Gannoe

Paul Mannoe

Associate Vice President, EKU Facilities Services & Capital Planning



cc: Ron Mink Associate Director, Mechanical & Electrical

Barry Poynter Vice President of Financial Affairs & Administration

Bill Rhodes Assistant Director of Environmental Compliance & Energy Management

bill.rhodes@eku.edu 859 622-4104

Enclosures: Semi-Annual Summary Report for 2016; July-December

Heat Plant Steam Output 2016 Calendar Year

Monthly Output chart by days and weeks for December, 2016

Baghouse Differential Pressure 3 Hour Rolling Average for December 2016

Record of Planned or Unplanned Excess Emissions report sheets

Fuel Usage with HCl and HAP's calculations for 2016 (including 12 month rolling HCl tonnage) Coal Deliveries and Analyses for 3<sup>rd</sup> and 4<sup>th</sup> Quarter 2016 with SO<sub>2</sub> and Particulate calculations

Paint Shop Spray Booth Log for 2016; July-December



#### EKU COMPLIANCE SEMI-ANNUAL SUMMARY REPORT July Through December 2016



TITLE V AIR PERMIT No. V-14-004 (Source ID No. 21-151-00007)

				TITLE V	PERMIT MON	ITORING REQ	UIREMENT			
	Monitor sulfur content and heat content in coal delivered	Deliveries to Heat Plant		Coal Boilers ate of fuel usurs of operat		Gas Boiler No. 3 Rate of fuel use / Hours of operation	Daily visual emissions with Method 9 if VE>0	Baghouse pressure drop 2.0 - 6.0 inches H <sub>2</sub> O	Paint spray booth hours of operation, coating type	Location of Monitor Records
					VERIFICAT	ION METHOD				
Day Month Year	X = Delivery to Coal Facility; with analysis N/A = no delivery	X = Coal moved from Coal Facility to Heat Plant N/A = no delivery	Boiler No. 1  X = boiler in use  N/A = boiler not running	Boiler No. 2  X = boiler in use  N/A = boiler not running	Boiler No. 4  X = boiler in use  N/A = boiler not running	Boiler No. 3  X = boiler in use  N/A = boiler not running	X = VE is 0  9 = Method 9 conducted  N/A = not running	Value = Daily Average Differential Pressure in inches H₂O  N/A = not running	X = paint booth hours and coating use monitored N/A = not operating	N = Shared "N" Drive main- tained by EKU IT
					DAILY LO	G				
7/1/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/2/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/3/16 7/4/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
7/4/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
7/6/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/7/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/8/16 7/9/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
7/10/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/11/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/12/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/13/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
7/14/16 7/15/16	N/A	N/A N/A	N/A	N/A N/A	N/A	N/A	N/A N/A	N/A	N/A	N
7/16/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/17/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/18/16 7/19/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/19/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
7/21/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/22/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/23/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/24/16 7/25/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
7/26/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/27/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/28/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
7/29/16 7/30/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
7/30/16	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A	N/A	N
8/1/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/2/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N N
8/3/16 8/4/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
8/5/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/6/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/7/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N N
8/8/16 8/9/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
8/10/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/11/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/12/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/13/16 8/14/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
8/14/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
8/16/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/17/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/18/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N

Day Month Year	X = Delivery to Coal Facility; with analysis N/A = no	X = Coal moved from Coal Facility to Heat Plant N/A = no	Boiler No. 1  X = boiler in use  N/A = boiler	Boiler No. 2  X = boiler in use  N/A = boiler	No. 4  X = boiler in use  N/A = boiler not running	Boiler No. 3  X = boiler in use  N/A = boiler	X = VE is 0  9 = Method 9 conducted  N/A = not	Value = Daily Average Differential Pressure in inches H <sub>2</sub> O  N/A = not	X = paint booth hours and coating use monitored N/A = not	N = Shared "N" Drive main- tained by EKU IT
	delivery	delivery	not running	not running	not running	not running	running	running	operating	
					DAILY LO	G				
8/19/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/20/16 8/21/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
8/22/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/23/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/24/16 8/25/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
8/26/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/27/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/28/16 8/29/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
8/30/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
8/31/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/1/16 9/2/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
9/3/16	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N
9/4/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/5/16 9/6/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
9/7/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/8/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/9/16 9/10/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
9/10/16	N/A N/A	N/A	N/A	N/A N/A	N/A N/A	N/A	N/A	N/A N/A	N/A N/A	N N
9/12/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/13/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/14/16 9/15/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
9/16/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/17/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/18/16 9/19/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
9/20/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/21/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/22/16 9/23/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
9/24/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/25/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/26/16 9/27/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
9/28/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/29/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
9/30/16 10/1/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
10/1/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/3/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/4/16 10/5/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
10/5/16	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A N/A	N/A N/A	N
10/7/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/8/16 10/9/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
10/9/16	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N/A N/A	N
10/11/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/12/16 10/13/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
10/13/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
10/15/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/16/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/17/16 10/18/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
10/19/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/20/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/21/16 10/22/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N

			Boiler	Boiler	Boiler	Boiler		ı		
	X =	X =	No. 1	No. 2	No. 4	No. 3	X =	Value =	Y. noint	
	X = Delivery to	X = Coal moved	1.5.	.,,,,		1.5. 0	VE is 0	Daily Average	X = paint booth hours	
	Coal	from Coal						Differential	and coating	N =
Day	Facility; with	Facility to	X = boiler	X = boiler	X = boiler	X = boiler	9 =	Pressure in	use monitored	Shared "N"
Month	analysis	Heat Plant	in use	in use	in use	in use	Method 9	inches H₂O	355	Drive main-
Year	,		NI/A bailar	NI/A bailar	NI/A bailar	NI/A bailas	conducted	_		tained by
	N/A = no	N/A = no	N/A = boiler	N/A = boiler	N/A = boiler	N/A = boiler	<b>N</b> / <b>A</b> = not	<b>N</b> / <b>A</b> = not	N/A = not	EKU IT
	delivery	delivery	not running	not running	not running	not running	running	running	operating	
							running			
					DAILY LO	G				
10/23/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/24/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/25/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/26/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
10/27/16	N/A N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N
10/28/16 10/29/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
10/29/16	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A	N
10/31/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
11/1/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
11/2/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
11/3/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
11/4/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
11/5/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
11/6/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A	N/A N/A	N N
11/7/16 11/8/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N N
11/9/16	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A	N/A N/A	N/A	N N
11/10/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
11/11/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
11/12/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
11/13/16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
11/14/16	N/A	N/A	N/A	N/A	N/A	fire up	N/A	N/A	N/A	N
11/15/16	N/A	N/A	N/A	N/A	N/A	X	N/A N/A	N/A	N/A N/A	N N
11/16/16 11/17/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	X	N/A N/A	N/A N/A	N/A N/A	N N
11/17/16	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N
11/19/16	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N
11/20/16	N/A	N/A	N/A	N/A	N/A	Х	N/A	N/A	N/A	N
11/21/16	N/A	N/A	N/A	N/A	N/A	Х	N/A	N/A	N/A	N
11/22/16	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N
11/23/16	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N
11/24/16 11/25/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	X	N/A N/A	N/A N/A	N/A N/A	N N
11/25/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	X	N/A N/A	N/A N/A	N/A N/A	N N
11/27/16	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N
11/28/16	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N
11/29/16	N/A	N/A	N/A	N/A	N/A	Х	N/A	N/A	N/A	N
11/30/16	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N
12/1/16	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N
12/2/16	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N
12/3/16 12/4/16	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	X	N/A N/A	N/A N/A	N/A N/A	N N
12/4/16	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	X	N/A	N/A N/A	N/A N/A	N N
12/6/16	N/A	N/A	N/A	start up 3pm	N/A	X	N/A	N/A	N/A	N
12/7/16	N/A	N/A	N/A	X	N/A	X	9	1.43	N/A	N
12/8/16	N/A	Х	N/A	X	N/A	X	Х	3.03	N/A	N
12/9/16	N/A	Х	N/A	X	N/A	X	X	2.75	N/A	N
12/10/16	N/A	X	N/A	X	N/A	X	X	3.18	N/A	N
12/11/16 12/12/16	N/A N/A	X	N/A N/A	X	N/A N/A	X	X	3.20 3.31	N/A N/A	N N
12/12/16	N/A N/A	X	N/A N/A	X	N/A N/A	X	X	2.75	N/A N/A	N N
12/13/16	N/A	X	N/A	X	N/A	X	9	2.73	N/A	N
12/15/16	N/A	Х	N/A	X	N/A	X	X	3.04	N/A	N
12/16/16	N/A	Х	N/A	X	N/A	Х	Х	2.38	N/A	N
12/17/16	N/A	Х	N/A	Х	N/A	Х	Х	2.69	N/A	N
12/18/16	N/A	Х	N/A	X	N/A	X	X	3.22	N/A	N
12/19/16	N/A	X	N/A	X	N/A	X	X	2.94	N/A	N
12/20/16 12/21/16	N/A N/A	X	N/A N/A	X	N/A N/A	X	Х 9	2.77 2.99	N/A N/A	N N
12/21/16	N/A N/A	X	N/A N/A	X	N/A N/A	X	X	2.99	N/A N/A	N N
12/23/16	N/A	X	N/A	X	N/A N/A	X	X	2.90	N/A	N
12/24/16	N/A	X	N/A	X	N/A	X	X	2.79	N/A	N
12/25/16	N/A	Х	N/A	X	N/A	X	Х	3.24	N/A	N
12/26/16	N/A	Х	N/A	Х	N/A	Х	Х	3.00	N/A	N

Day Month Year	X = Delivery to Coal Facility; with analysis N/A = no delivery	X = Coal moved from Coal Facility to Heat Plant N/A = no delivery	Boiler No. 1  X = boiler in use  N/A = boiler not running	Boiler No. 2  X = boiler in use  N/A = boiler not running	No. 4  X = boiler in use  N/A = boiler not running	Boiler No. 3  X = boiler in use  N/A = boiler not running	X = VE is 0  9 = Method 9 conducted  N/A = not running	Value = Daily Average Differential Pressure in inches H <sub>2</sub> O  N/A = not running	X = paint booth hours and coating use monitored N/A = not operating	N = Shared "N" Drive main- tained by EKU IT
					DAILY LO	G				
12/27/16	N/A	Х	N/A	X	N/A	Χ	9	3.14	N/A	N
12/28/16	N/A	Х	N/A	X	N/A	N/A	Х	3.07	N/A	N
12/29/16	N/A	X	N/A	X	N/A	X	X	3.04	N/A	N
12/30/16	N/A	X	N/A	X	N/A	X	X	3.13	N/A	N
12/31/16	N/A	X	N/A	X	N/A	X	X	2.98	N/A	N

# **Heat Plant Steam Output 2016**



#### Monthly Totals, with Fuel & Water Usages

Month	Gas (Mcf)	Coal (Tons)	Ash (Tons)	Make-Up H <sub>2</sub> O (Kgal)	Condensate Return (Cgal)	Percent Conden- sate Return	Boiler #1 Output (KLbs)	Boiler #2 Output (KLbs)	Boiler #3 Output (KLbs)	Boiler #4 Output (KLbs)	Total Steam (KLbs)	Steam Per Day (KLbs)	Steam Per Hour (KLbs)
January	2,437	1,485	318	1,966	2,848	12.6%	0	2,968	1,074	12,813	16,855	544	23
February	0	1,363	180	1,332	2,038	13.3%	0	4,152	0	9,488	13,640	470	20
March	967	992	31	1,002	1,989	16.6%	0	2,957	1,034	6,620	10,611	342	14
April	1,020	546	11	1,218	2,472	16.9%	0	14,733	1,538	0	16,271	542	23
May	4,247	0	0	556	1,218	18.0%	0	0	6,029	0	6,029	194	8
June	0	0	0	0	0	0.0%	0	0	0	0	0	0	0
July	0	0	0	0	0	0.0%	0	0	0	0	0	0	0
August	0	0	0	0	0	0.0%	0	0	0	0	0	0	0
September	0	0	0	0	0	0.0%	0	0	0	0	0	0	0
October	0	0	0	0	0	0.0%	0	0	0	0	0	0	0
November	2,958	0	0	399	215	5.1%	0	0	3,453	0	3,453	115	5
December	3,881	849	15	1,259	365	2.8%	0	6,499	5,013	0	11,512	371	15
2016 Totals	15,510	5,234	555	7,732	11,145	12.6%	0	31,309	18,141	28,921	78,371		
	Per	cent Ash:	10.6%		Loa	d Share	0.0%	39.9%	23.1%	36.9%	100%		

#### **Prorated Coal Usage**

Month	% of Coal-l	Fired Steam	Boiler #2 Tons	Boiler #4 Tons	Total Tons
Wionth	Boiler #2	Boiler #4	Burned	Burned	Burned
Jan	18.8%	81.2%	279	1,205	1,485
Feb	30.4%	69.6%	415	948	1,363
Mar	30.9%	69.1%	306	685	992
Apr	100.0%	0.0%	546	0	546
May	0.0%	0.0%	0	0	0
Jun	0.0%	0.0%	0	0	0
Jul	0.0%	0.0%	0	0	0
Aug	0.0%	0.0%	0	0	0
Sep	0.0%	0.0%	0	0	0
Oct	0.0%	0.0%	0	0	0
Nov	0.0%	0.0%	0	0	0
Dec	100.0%	0.0%	849	0	849

# Heat Plant Output 2016 Calendar Year

# Weekly Steam Output with Fuel & Water Usage December 2016

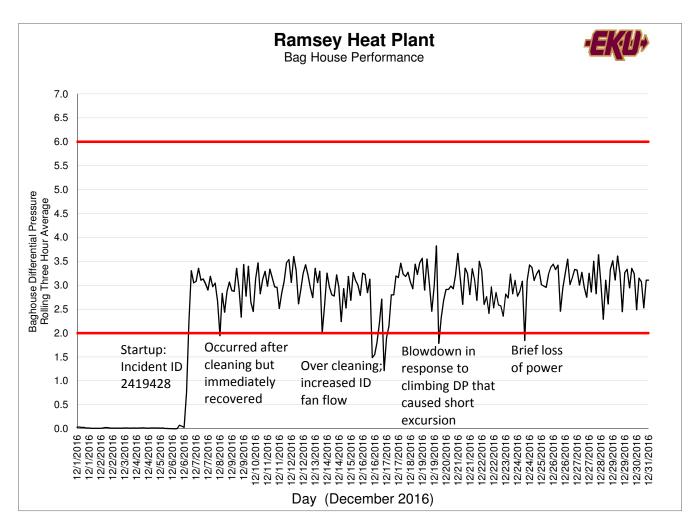
	Percent		4.9%	2.4%	3.5%	3.6%	3.1%	2.8%	3.7%	3.5%		Kgal	Sgal	Kgal
	Cndnsate Return	Cal	2,316	923	1,841	1,946	1,513	1,161	1,702	11,402		Make-up Water: 4529.7 Kgal	Condensate Return: 1,628.9 Cgal	City Water: 365,285.8 Kgal
	Make-up Water	Gal	44,604	37,352	50,987	52,004	47,170	40,741	44,222	317,080		np Water:	e Return:	ty Water:
	City Water	Cal	351,949	335,284	397,809	417,616	370,881	322,141	361,321	2,557,001		Make-	Condensa	C
	City Water	Cu Ft	47,052	44,824	53,183	55,831	49,583	43,067	48,305	341,845	erages			
	Boiler 3 Gas	Mcf	89	141	147	121	104	99	42	726	Daily Averages	Tons	Tons	Mcf
	, 2 & 4 \sh	Tons	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		29.4 Tons	0.0 Tons	103.7 Mcf
	Boilers 1, 2 & 4 Fly Ash	Loads	0.9	4.0	0.0	0.0	0.0	0.0	0.0	10.0		Coal:	Ash:	Gas:
	l, 2 & 4 al	Tons	26.4	21.1	36.9	36.9	31.7	26.4	26.4	205.7				
	Boilers 1, 2 & 4 Coal	Loads	5.0	4.0	7.0	7.0	0.9	5.0	5.0	39.0				
	Day	Boiler 4								0		KLbs	KLbs	KLbs
	erated per	Boiler 3	127	92	244	143	240	78	129	1053	Jutput	3,144	449	18.71
	KLbs Steam Generated per Day	Boiler 2	566	259	252	391	256	306	361	2091	Steam Output	Week Total: 3,144	Daily Avg:	Hourly Avg:
	KLb	Boiler 1								0		M	]	H
Fourth Week:	Date		18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec	24-Dec	Weekly Totals				
F	Percent Potum		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	8.0%	2.0%	1.1%	2.2%				
		- Eg	IQ#	IU#	IQ#	IU#	637 8.0	680 2.0	374 1.	1,691		83.9 Kgal	563.7 Cgal	06.2 Kgal
	Make-up Cndnsate Water Return	Gal G					7,332	33,495		74,518 1,		Make-up Water: 2483.9 Kgal		City Water: 201,506.2 Kgal
	r	Gal G	0	0	0	0	63,872 7,	270,342 33,	270,305 33,691	604,519 74,		Make-up V	Condensate Return:	City V
	City C Water Wa						8,539 6.	36,142 270					C <sub>0</sub>	
	3						1.5		$\overline{}$	<u></u>	જ			
	= 7 h	ಶ							4 36,137	80,818	aily Averages			
		ns Mcf					168	258	254	089	Daily Averages	0.0 Tons	0.0 Tons	26.7 Mcf
		Tons					0.0	0.0	0.0	0.0 680	Daily Averages		Ash: 0.0 Tons	Gas: 226.7 Mcf
	Boilers 1, 2 & 4 Fly Ash	Loads Tons	0	0			0.0 0.0	0.0 0.0 258	0.0 0.0 254	0.0 0.0	Daily Averages	Coal: 0.0 Tons		Gas: 226.7 Mcf
	Boilers 1, 2 & 4 Fly Ash	Tons Loads Tons	0.0	0.0	0.0	0.0	0.0 0.0 0.0	0.0 0.0 0.0 258	0.0 0.0 0.0 254	0.0 0.0 0.0 0.0	Daily Averages			
	2 & 4 Boilers 1, 2 & 4 Fly Ash	Loads Tons Loads Tons	0.0	0.0	0.0	0.0	0.0 0.0	0.0 0.0 258	0.0 0.0 254	0.0 0.0	Daily Averages	Coal:	Ash:	Gas:
	Boilers 1, 2 & 4 Boilers 1, 2 & 4 Coal Fly Ash	Boiler 4 Loads Tons Loads Tons	0.0	0.0	0.0	0.0	0.0 0.0 0.0 168	0.0 0.0 0.0 258	0.0 0.0 0.0 0.0 254	0.0 0.0 0.0 0.0 0.0		KLbs Coal:	KLbs Ash:	KLbs Gas:
	Boilers 1, 2 & 4 Boilers 1, 2 & 4 Coal Fly Ash	Boiler 3 Boiler 4 Loads Tons Loads Tons	0.0	0.0	0.0	0.0	0.0 0.0 0.0	0.0 0.0 0.0 258	0.0 0.0 0.0 254	0.0 0.0 0.0 0.0		KLbs Coal:	218 KLbs Ash:	9.08 KLbs Gas:
	Boilers 1, 2 & 4 Boilers 1, 2 & 4 Coal Fly Ash	Boiler 2 Boiler 3 Boiler 4 Loads Tons Loads Tons	0.0	0.0	0.0	0.0	0.0 0.0 0.0 168	0.0 0.0 0.0 258	0.0 0.0 0.0 0.0 254	0.0 0.0 0.0 0.0 0.0	Steam Output Daily A verages	Coal:	KLbs Ash:	KLbs Gas:
First Week:	Boilers 1, 2 & 4 Fly Ash	Boiler 3 Boiler 4 Loads Tons Loads Tons	0.0	0.0	0.0	0.0	0.0 0.0 0.0 168	0.0 0.0 0.0 258	0.0 0.0 0.0 0.0 254	0.0 0.0 0.0 0.0 0.0		KLbs Coal:	218 KLbs Ash:	9.08 KLbs Gas:

Fifth Week:	Boiler 3 Gas         City         City         Make-up         Cndnsate         Percent         Refurm         Percent         KLbs Steam Generate	Mcf CuFt Gal Gal Gal Neurill Boiler 1 Boiler 2 Boiler	159 20,676 154,656 19,489 900 4.4% 25-Dec 232 73	341 41,434 309,926 38,832 1,768 4.4% 26-Dec 240 12.	293 32,977 246,668 31,558 780 2.4% 27-Dec 183 20	191 37,414 279,857 34,137 803 2.3% 28-Dec 225 36	127 46,790 349,989 43,471 711 1.6% 29-Dec 312 96	40 72,749 544,163 66,186 1,260 1.9% 30-Dec 262 73	91 56,568 423,129 51,253 1,087 2.1% 31-Dec 303 95	1,242 308,608 2,308,388 284,926 7,309 2.5% Weekly 0 1757 51	Daily Averages Steam Output	31.7 Tons Make-up Water: 4070.4 Kgal Week Total: 2,20	0.0 Tons Condensate Return: 1,044.1 Cgal Daily Avg: 32	
	Boilers 1, 2 & 4 Boilers 1, 2 & 4 Coal Fly Ash	Loads Tons Loads	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	21.0 110.8 0.0	0.0 0.0 0.0	11.0 58.0 0.0	10.0 52.8 0.0	42.0 221.6 0.0		Coal:	Ash:	
5	KLbs Steam Generated per Day	Boiler 1 Boiler 2 Boiler 3 Boiler 4	191	344	279	417	402	72	398 50	0 0891 866 0	Steam Output	Week Total: 2,078 KLbs	Daily Avg: 297 KLbs	
cond Week:	Date	-	4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec	Weekly Totals		-	-	

Third Week:								•							Sixth Week:		
Date	KLb	KLbs Steam Generated per Day	nerated per	. Day	Boilers Co	Boilers 1, 2 & 4 Coal	Boilers 1, 2 & 4 Fly Ash	l, 2 & 4 Ash	Boiler 3 Gas	City Water	City Water	Make-up Water	Make-up Cndnsate Water Return	Percent	Date	KU	KL bs Ste
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf	Cu Ft	Gal	Gal	Gal	Metalli		Boiler 1	Boi
11-Dec		567	187		10.0	52.8	0.0	0.0	120	57,404	429,382	37,255	943	2.5%			
12-Dec		301	138		0.9	31.7	0.0	0.0	62	57,132	427,347	52,392	228	1.6%			
13-Dec		223	16		0.9	31.7	0.0	0.0	89	42,318	316,539	39,123	553	1.4%			
14-Dec		569	90		5.0	26.4	0.0	0.0	78	46,395	347,035	42,683	189	1.6%			
15-Dec		385	108		0.9	31.7	0.0	0.0	110	989,95	424,011	53,027	1,411	2.6%			
16-Dec		358	182		8.0	42.2	0.0	0.0	197	58,742	439,390	55,003	1,772	3.1%			
17-Dec		418	360		7.0	36.9	0.0	0.0	192	81,767	611,617	699'92	4,117	5.1%			
Weekly Totals	0	2253	1116	0	48.0	253.2	0.0	0.0	844	400,444	2,995,321	356,152	10,354	2.8%	Weekly Totals	0	
		Steam Or	Output						Daily Averages	verages							9,
	Δ	Week Total:	3,369	KLbs			Coal:	36.2 Tons	Tons		Make-	up Water:	Make-up Water: 5087.9 Kgal	Kgal		Y	Week
		Daily Avg:	481	KLbs			Ash:	0.0 Tons	Tons		Condensa	te Return:	Condensate Return: 1,479.1 Cgal	Cgal			Daily
	H	Hourly Avg:	20.05	KLbs			Gas:	120.6 Mcf	Mcf		Э	ity Water:	City Water: 427,903.0 Kgal	Kgal		I	Hourh

III WEEK:														
Date	KLb	KLbs Steam Generated per Day	nerated per	. Day	Boilers	Boilers 1, 2 & 4 Coal	Boilers Fly	Boilers 1, 2 & 4 Fly Ash	Boiler 3 Gas	City Water	City Water	Make-up Water	Cndnsate Return	Percent
1	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf	Cu Ft	Gal	Gal	Gal	Netmin
25-Dec		232	73		5.0	26.4	0.0	0.0	09	35,003	261,822	33,496	741	2.2%
26-Dec		240	123		5.0	26.4	0.0	0.0	49	36,844	275,593	34,416	1,044	2.9%
27-Dec		183	20		4.0	21.1	3.0	0.0	10	28,974	216,726	24,282	308	1.3%
28-Dec		225	30		4.0	21.1	0.0	0.0	22	29,184	218,296	27,079	118	0.4%
29-Dec		312	96		4.0	21.1	0.0	0.0	99	39,480	295,310	37,964	1,624	4.1%
30-Dec		262	73		5.0	26.4	0.0	0.0	42	37,415	279,864	34,982	319	%6.0
31-Dec		303	56		5.0	26.4	2.0	0.0	16	37,702	282,011	34,381	1,628	4.5%
Weekly Totals	0	1221	015	0	32.0	168.8	5.0	0.0	389	244,602	1,829,623	226,600	5,782	2.5%
		Steam	Steam Output						Daily A	Daily Averages				
	Λ	Week Total:	2,267	KLbs			Coal:	24.1	Tons		Make	Make-up Water:	3237.1	Kgal
		Daily Avg:	324	KLbs			Ash:	0.0	Tons		Condens	Condensate Return:	826.0	Cgal
	H	Hourly Avg:	13.49	KLbs			Gas:	55.6	Mcf		)	City Water: 261,374.7		Kgal
th Week:														
Date	KLb	KLbs Steam Generated per Day	nerated per	· Day	Boilers Co	Boilers 1, 2 & 4 Coal	Boilers Fly	Boilers 1, 2 & 4 Fly Ash	Boiler 3 Gas	City Water	City Water	Make-up Water	Cndnsate Return	Percent
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf	Cu Ft	Gal	Gal	Gal	Kemin
						0.0					0			#DIV/0!
						0.0					0			#DIV/0!
						0.0					0			#DIV/0!
						0.0					0			#DIV/0!
						0.0					0			#DIV/0!
						0.0					0			#DIV/0!
						0.0					0			#DIV/0!
Weekly Totals	0	0	0	0	0.0	0.0	0.0	0.0	0	0	0	0	0	#DIV/0!
		Steam Output	Output						Daily A	Daily Averages				
	Λ	Week Total:	0	KLbs			Coal:	#DIV/0;	Tons		Make	Make-up Water: #DIV/0!		Kgal
		Daily Avg:	#DIV/0!	KLbs			Ash:	#DIV/0!	Tons		Condens	Condensate Return:	#DIV/0!	Cgal
	H	Hourly Avg:	#DIV/0!	KLbs			Gas:	#DIV/0;	Mcf		)	City Water:	#DIV/0;	Kgal

#### **Bag House Differential Pressure 3 Hour Rolling Average**



Unplanned Excess Emissions forms were filled out, but new foreman did not understand the requirement to provide a colelectronic notification. Filled out forms follow.



This report relates to 401 KAR 50:055, Section 1 USE ADDITIONAL PAGES AS NEEDED
SHUTDOWN: Planned Provide 3-day Notice to Frankfort Regional Office; (502)564-3358
Unplanned Give immediate telephone notice to Regional Office
STARTUP: Planned Provide 3-day Notice to Regional Office
Unplanned Provide notice to Regional Office as early as possible
EXCURSION Give immediate telephone notice to Regional Office
Source Name: Eastern Kentucky University ID #: 2820
Source Mailing Address: CPO 6A-1 521 Lancaster Avenue Richmond, KY 40475
Person Reporting: Kobbi Responsible Person: David Hepburn
Telephone: (859) 622-2966 Title: Associate Director, Facilities Services
Occurrence or First Observation Date: 12/8/16 Time (AM/PM) 12 NooN
Expected Duration (Shutdowns Only):
Equipment Involved: BACHOUSE
Cause or Reason: <u>LURING CLEANING OF BAGS AME</u> OFFERENTIAL PRESSURF DRODDER BELOW 2.0
THE BAGHOUSE DID NOT GO INTO BYPASS
Corrective Action (If Applicable): NONE TAKEN, THE DP EVENTUA
BUILT BACK UD PAST 2.0.
OF MOT ATT.
Basis for Determination that Shutdown is Necessary:
Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:



SHUTDOWN: Planned Provide 3-day Notice to Frankfort Regional Office (502)584-3358 Unplanned Give immediate telephone notice to Regional Office  STARTUP: Planned Provide 3-day Notice to Regional Office  STARTUP: Planned Provide notice to Regional Office  EXCURSION Give immediate telephone notice to Regional Office  Source Mailing Address: CPO 6A-1 S21 Lancaster Avenue Richmond, KY 40475  Person Reporting: Person: David Hepburn  Telephone: (859) 622-2966 Title: Associate Director, Facilities Services  Occurrence or First Observation Date: Time (AM/PM)  Expected Duration (Shutdowns Only): S44444  Cause or Reason: Corrective Action (If Applicable): Stack Opacity (report attached): Measures Taken to Minimize the Extent and Duration of Emissions: CA14444  Stack Opacity (report attached): Measures Taken to Minimize the Extent and Duration of Emissions: CA14444  Measures Taken to Minimize the Extent and Duration of Emissions: CA14444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize the Extent and Duration of Emissions: CA1444  Measures Taken to Minimize Tak	This report relates to 401 KAR 50:055, Section 1 USE ADDITIONAL PAGES AS NEEDED	
STARTUP: Planned Provide 3-day Notice to Regional Office Unplanned Provide notice to Regional Office as early as possible  EXCURSION Give immediate telephone notice to Regional Office  Source Name: Eastern Kentucky University ID #: 2820  Source Mailing Address: CPO 6A-1 521 Lancaster Avenue Richmond, KY 40475  Person Reporting: Associate Director, Facilities Services  Occurrence or First Observation Date: Tille: Associate Director, Facilities Services  Expected Duration (Shutdowns Only): Equipment Involved: Associate Director, Facilities Services  Cause or Reason: Corrective Action (If Applicable): Associate Director, Facilities Services  Stack Opacity (report attached): Measures Taken to Minimize the Extent and Duration of Emissions: Associate Director Action (Minimize the Extent and Duration of Emissions: Associate Director Action (Minimize the Extent and Duration of Emissions: Associate Director Action (Minimize the Extent and Duration of Emissions: Associate Director Action (Minimize the Extent and Duration of Emissions: Associate Director Action (Minimize the Extent and Duration of Emissions: Associate Director, Facilities Services  Associate Director, Facilitie	SHUTDOWN: Planned Provide 3-day Notice to Frankfort Regional Office; (502)564-3358	
Unplanned Provide notice to Regional Office as early as possible   EXCURSION   Give immediate telephone notice to Regional Office   Source Name: Eastern Kentucky University   ID #: 2820	Unplanned Give immediate telephone notice to Regional Office	
EXCURSION Give immediate telephone notice to Regional Office  Source Name: Eastern Kentucky University ID #: 2820  Source Mailing Address: CPO 6A-1 521 Lancaster Avenue Richmond, KY 40475  Person Reporting: Associate Director, Facilities Services  Telephone: (859) 622-2966 Title: Associate Director, Facilities Services  Occurrence or First Observation Date: Course (AM/PM) To Definition (Shutdowns Only): Sequipment Involved: Cause or Reason: Corrective Action (If Applicable): Associate Director, Facilities Services  Corre	STARTUP: Planned Provide 3-day Notice to Regional Office	
Source Name: Eastern Kentucky University ID #: 2820  Source Mailing Address: CPO 6A-1 521 Lancaster Avenue Richmond, KY 40475  Person Reporting: Responsible Person: David Hepburn  Telephone: (859) 622-2966 Title: Associate Director, Facilities Services  Occurrence or First Observation Date: DEC 620 Time (AM/PM) 7:00 AM  Expected Duration (Shutdowns Only): Equipment Involved: BRESSURE DRAW  Cause or Reason: DIFFERENTIAL RESSURE DRAW  Basis for Determination that Shutdown is Necessary: Stack Opacity (report attached): Measures Taken to Minimize the Extent and Duration of Emissions: PARSON RESPONSED FOR A SEASON RES	Unplanned Provide notice to Regional Office as early as possible	
Source Mailing Address: CPO 6A-1 521 Lancaster Avenue Richmond, KY 40475  Person Reporting: Responsible Person: David Hepburn  Telephone: (859) 622-2966 Title: Associate Director, Facilities Services  Occurrence or First Observation Date: DELLA 201 Time (AM/PM) 7:00 AM  Expected Duration (Shutdowns Only): Shutdowns Only): Cause or Reason: DIFFERENTIAL PROPERTY OF THE PROPERTY OF	EXCURSION Give immediate telephone notice to Regional Office	
Person Reporting:  Telephone:  (859) 622-2966  Title:  Associate Director, Facilities Services  Occurrence or First Observation Date:  Expected Duration (Shutdowns Only):  Equipment Involved:  Cause or Reason:  Corrective Action (If Applicable):  Applicable):  Basis for Determination that Shutdown is Necessary:  Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:  Applicable Services  Responsible Person:  David Hepburn  Associate Director, Facilities Services  Associate Directo	Source Name: Eastern Kentucky University ID #: 2820	
Telephone: (859) 622-2966 Title: Associate Director, Facilities Services  Occurrence or First Observation Date: 120 Time (AM/PM) 7:00 ###  Expected Duration (Shutdowns Only): 150 FF	Source Mailing Address: CPO 6A-1 521 Lancaster Avenue Richmond, KY 40475	
Occurrence or First Observation Date: DECIGOTIME (AM/PM) 7:00 AM  Expected Duration (Shutdowns Only): SHUDOWN  Equipment Involved: BFG HOUSE - DAM  Cause or Reason: DECIGOTIME PRESSURE DRAW  Corrective Action (If Applicable): MORKED DECIGOTION AND HUMAN  Basis for Determination that Shutdown is Necessary: Stack Opacity (report attached): Measures Taken to Minimize the Extent and Duration of Emissions: DECIGOTION AND HUMAN  Resurres Taken to Minimize the Extent and Duration of Emissions: DECIGOTION AND HUMAN  BASIS OF RESURCES BASIS AND	Person Reporting: Sobbie Kabbins Responsible Person: David Hepburn	
Expected Duration (Shutdowns Only):  Equipment Involved:  BH6HOUSE - DAMES  Cause or Reason:  Compose DROPER	Telephone: (859) 622-2966 Title: Associate Director, Facilities Services	
Cause or Reason:  Cause or Reason:  Corrective Action (If Applicable):  Corrective Action (If Applicable):  Constant AREAS ON CONFERMANCE AREAS ON CONFERMAN	Occurrence or First Observation Date: DEC. 16, 2017 Time (AM/PM) 7,00 AM - 11,00	
Cause or Reason:  Corrective Action (If Applicable):  Corrective Action (If Applicable):  ACTION HAAD  Basis for Determination that Shutdown is Necessary:  Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:  ACTION HAAD  CALE  ACTION HAAD  CALE	Expected Duration (Shutdowns Only): No SHUTDOWN	
Corrective Action (If Applicable):  MORKED DISCRESS AREAS ON COMPANY  Basis for Determination that Shutdown is Necessary:  Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:	Equipment Involved: BAGHOUSE - DAMBERS	
Corrective Action (If Applicable):  MORKED DISCRESS AREAS ON COMPANY  Basis for Determination that Shutdown is Necessary:  Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:  Measures Taken to Minimize the Extent and Duration of Emissions:		
Basis for Determination that Shutdown is Necessary:  Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:  The Believes Backhouse was over creating the Extent and Duration of Emissions:	Cause or Reason: DIFFERENTIAL PRESSURE DROPPED	
Basis for Determination that Shutdown is Necessary:  Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:  The Believes Backhouse was over creating the Extent and Duration of Emissions:	LOW 2.0 due To COMPUTER MATEUR	M
Basis for Determination that Shutdown is Necessary:  Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:  The Believes Backhouse was over creating the Extent and Duration of Emissions:		
Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:  Believes Backers Was Diese Was Diese Williams Diese Was Diese Williams	Corrective Action (If Applicable): MORKED DISSERSON	
Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:  Believes Backers Was Diese Was Diese Williams Diese Was Diese Williams	COMPUTER - TO NO FVAIL	
Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:  Believes Backers Was Diese Was Diese Williams Diese Was Diese Williams		
Measures Taken to Minimize the Extent and Duration of Emissions:  A SE Believes Baghouse Was Over Cleaned  THAT DIFFERENTIAL PRESSURE WILL  THAT DIFFERENTIAL PRESSURE WILL		
Measures Taken to Minimize the Extent and Duration of Emissions:  A SE Believes Bachouse Was Over Cleaned  THAT DIFFERENTIAL PRESSURE WILL  THAT DIFFERENTIAL PRESSURE WILL		
Measures Taken to Minimize the Extent and Duration of Emissions:  A SE Believes Bachouse Was Over Cleaned  THAT DIFFERENTIAL PRESSURE WILL  THAT DIFFERENTIAL PRESSURE WILL		
THAT DIFFERENTIAL PROSSURE WILL	Stack Opacity (report attached):	
THAT DIFFERENTIAL PRESSURE WILL	Measures Taken to Minimize the Extent and Duration of Emissions:	
AND THAT DIFFERENTIAL PROSSURE WILL	The state of the s	
Slauly Come BACK		
	Slowly Come BACK.	



This	repor	t relates to 401	KAR 50:055, Section 1	USE /	ADDITIONAL PAGES AS NEEDED
TDOWN:		Planned	Provide 3-day Notice to	Frankfort	Regional Office; (502)564-3358
		Unplanned	Give immediate telepho	one notice t	o Regional Office
TARTUP:		Planned	Provide 3-day Notice to	Regional (	Office
		Unplanned	Provide notice to Regio	nal Office a	as early as possible
EXCURSION		Give immediate	telephone notice to Reg	gional Office	е
Source Name:	Eas	tern Kentucky Uı	niversity	ID #:	2820
Source Mailing A	ddres	s: CPO 6A-1	521 Lancaster Avenue	Richmond	, KY 40475
Person Reporting	g: <u>L</u> o	gin Allen	Responsibl	e Person:	David Hepburn
Telephone:		859) 622-2966			Associate Director, Facilities Services
Occurrence or Fi			12/17/16	Time (A	
			no Shutdown	_	<u> </u>
Equipment Involv					
Cause or Reasor	ո։ _/	BagHouse Ol	ver cleaned befor	Cought On	
Corrective Action					hich Rapit up which poils
Basis for Determi	nation	that Shutdown is	Necessary: <u>Λό</u> ζ	ht down	
Stack Opacity (re		· ·	and Duration of Emission	ns:	
2					
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## house deterential pressure



inis	s repoi	rt relates to 401	KAR 50:05	5, Section 1	USE	ADDITIONAL PA	GES AS NEEDED	
SHUTDOWN:		Planned	Provide 3-	day Notice to		Regional Office;		
		Unplanned			y .	to Regional Office		
STARTUP:		Planned	Provide 3-	day Notice to	Regional	Office		
		Unplanned				as early as possib	ole	
EXCURSION		Give immediate						
Source Name:	Eas	tern Kentucky Ur			ID #:			
Source Mailing A			521 Lancas	ster Avenue	Richmond	l, KY 40475		
Person Reporting	g: 5	Shane Spa	CVS	Resnonsibl	e Porson:	D 10175		
Telephone:	(8	59) 622-2966		Title:	e r elsoli.			
					n	Associate Directo	or, Facilities Services	
Occurrence or Fi	rst Obs	servation Date:	12-19-	16-12-20	Time (	M/PM) <u>12;00</u>	AM	
Expected Duratio								
Equipment Involv	ed:	Bag house						-
J		10016						_
Cause or Reason	):	Baghouse	ourcel.	eaned				_
		<i>J</i>						
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Corrective Action	(If App	diaphle).	) / -/					
Corrective Action	(11 App	ilicable). <u>Www</u>	ted do	eaning	·		Water the second	
								_
Basis for Determin	nation t	hat Shutdown is	Necessary:	ND	Shut	dayo		_
					00101	0,000 / 0		_
								-
Stack Opacity (rep	ort atta	ached).						_
Aeasures Taken to	o Minin	nize the Extent ar	nd Duration	of Emissions	:			
								_
								-
								-



This report relates to 401 KAR 50:055, Section 1 USE ADDITIONAL PAGES AS NEEDED	
SHUTDOWN: Planned Provide 3-day Notice to Frankfort Regional Office; (502)564-3358	
Unplanned Give immediate telephone notice to Regional Office	
STARTUP: Planned Provide 3-day Notice to Regional Office	
Unplanned Provide notice to Regional Office as early as possible	
EXCURSION Give immediate telephone notice to Regional Office	
Source Name: Eastern Kentucky University ID #: 2820	
Source Mailing Address: CPO 6A-1 521 Lancaster Avenue Richmond, KY 40475  Person Reporting: Responsible Person: David Hepburn	
Telephone: (859) 622-2966 Title: Associate Director, Facilities Services	
Occurrence or First Observation Date: DEC, Z4,2016 Time (AM/PM) 5,30 AM	
Expected Duration (Shutdowns Only): No 5/4uTDown	
Equipment Involved: DAG House	
Cause or Reason: DP CONTINUED Climbing INIATED Blow AND DP DROPPED below 200 AND STAYED THERE. THIS HELPED DE LEVELS IN BOILER WARE Corrective Action (If Applicable):	Da A
Basis for Determination that Shutdown is Necessary: Mo SHUTDow	
Stack Opacity (report attached):  Measures Taken to Minimize the Extent and Duration of Emissions:	



This report relates to 401 KAR 50:055, Section 1 USE ADDITIONAL PAGES AS NEEDED	
SHUTDOWN: Planned Provide 3-day Notice to Frankfort Regional Office; (502)564-3358	
Unplanned Give immediate telephone notice to Regional Office	
STARTUP: Planned Provide 3-day Notice to Regional Office	
Unplanned Provide notice to Regional Office as early as possible	
EXCURSION Give immediate telephone notice to Regional Office	
Source Name: Eastern Kentucky University ID #: 2820	
SHUTDOWN: Planned Provide 3-day Notice to Frankfort Regional Office; (502)564-3358  Unplanned Give immediate telephone notice to Regional Office  STARTUP: Planned Provide 3-day Notice to Regional Office  Unplanned Provide notice to Regional Office  Give immediate telephone notice to Regional Office  EXCURSION Give immediate telephone notice to Regional Office  Source Name: Eastern Kentucky University ID#: 2820  Source Mailing Address: CPO 6A-1 521 Lancaster Avenue Richmond, KY 40475  Person Reporting: And Responsible Person: David Hepburn  Telephone: (859) 622-2966 Title: Associate Director, Facilities Services  Occurrence or First Observation Date: 12-24-16 Time (MPM) 1:57  Expected Duration (Shutdowns Only): 3-4 minute for fower 1055.  Equipment Involved: Whole Plant  Cause or Reason: Loss of Electricy.  Corrective Action (If Applicable): Waited for Power to transfer to Other Transformer, Then refired Everything.	
Person Reporting: Billy Cain Responsible Person: David Hepburn	
Telephone: (859) 622-2966 Title: Associate Director, Facilities Services	
Occurrence or First Observation Date: 12-24-16 Time (AM)PM)	
Expected Duration (Shutdowns Only): 3-4 minute for Power 1055.	
Cause or Reason: Loss of Fire Chairy	
Unplanned Give immediate telephone notice to Regional Office  Unplanned Provide 3-day Notice to Regional Office  Unplanned Provide notice to Regional Office  Unplanned Provide notice to Regional Office  EXCURSION Give immediate telephone notice to Regional Office  Source Name: Eastern Kentucky University ID #: 2820  Source Mailing Address: CPO 6A-1 521 Lancaster Avenue Richmond, KY 40475  Person Reporting: And Responsible Person: David Hepburn  Telephone: (859) 622-2966 Title: Associate Director, Facilities Services  Occurrence or First Observation Date: 12-24-16 Time (AMPM) 1:57  Expected Duration (Shutdowns Only): 3-4 minute for fower 1055.  Equipment Involved: What Plant  Cause or Reason: Loss of Electricy.  Corrective Action (If Applicable): Waited for fower to transfer to Other transformer, Then refired everything.	
Other transformer, then refired everything.	
Basis for Determination that Shutdown is Necessary: Was not Necessary: But	
lost Power to Plant	
SHUTDOWN:   Planned   Provide 3-day Notice to Frankfort Regional Office; (502)564-3358   Unplanned   Give immediate telephone notice to Regional Office	
Measures Taken to Minimize the Extent and Duration of Emissions:	
·	



# Fuel Usage and Area Source Emissions

HCI HCI HCI HCI ROILI Month Heat Pla EU 02 EU 04 (Tons) (Tons) (MMSCI	0.6	0.21 0.20 0.42 2.10 2.437				0.00 0.00 0.00 1.85 4.247	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0.66 0.00 0.66 2.32 3.881
Heat Plant Other Nat Diesel Natural Gas Gas Used Burned (MMSCF) (1000 Gal)		2.437 6.812 1.26	0.000 5.536 1.12	0.967 4.608 0.95	1.020 6.922 0.80	4.247 9.501 0.82	0.000 6.100 0.55	0.000 6.421 0.93	0.000 6.337 1.17	0.000 8.657 0.94	0.000 12.138 0.88	2.958 3.142 1.16	3.881 2.219 0.75
sel Paint EU 02 led Sprayed Coal Gal) (Gal) (Lbs)		6 0.00 138	2 0.00 205	5 0.00 152	0.00 270	2 0.00 0	0.00 0	3 0.00 0	0.00 0	0.00 0	0 00:0 8	0 00:0 9	5 0.00 425
HAPs <sub>1b</sub> HAPs <sub>2</sub> EU 04 Natural Coal Gas (Lbs) (Lbs)		596 17.5	469 10.5	339 10.5	0 15.0	0 26.0	0 11.5	0 12.1	0 12.0	0 16.4	0 22.9	0 11.5	0 11.5
HAPs <sub>3</sub> HAPs <sub>4</sub> Diesel Paint (Lbs) (Lbs)		0.67 0.00	0.59 0.00	0.50 0.00	0.42 0.00	0.43 0.00	0.29 0.00	0.49 0.00	0.62 0.00	0.50 0.00	0.00 0.00	0.00 0.00	0.40 0.00
s <sub>4</sub> HAPs <sub>5</sub> Total nt Other HAPs s) (Lbs) (Tons)		0 500 0.63	0 500 0.59	0 500 0.50	0 500 0.39	0 500 0.26	0 500 0.26	0 500 0.26	0 500 0.26	0 500 0.26	0 500 0.26	0 500 0.26	0 500 0.47
HAPs 12 Month Rolling Total (Tons)	22.5	2.00	5.01	4.92	4.82	4.48	4.48	4.48	4.48	4.48	4.48	4.46	4.39

An area source of air emissions is defined by EPA as any stationary source, or group of stationary sources, that annually emits, in aggregate, less than 10 tons of any single hazardous air pollutant (HAP) or less than 25 tons of multiple HAPs.

#### **EASTERN KENTUCKY UNIVERSITY PO#**

#### 2016 - 3rd Qtr

CHID	TIOKET	TRUCK	WEIGHT		ANALYSIS (AS DELIVERED)								
SHIP DATE	TICKET NO.	NO.	NET LBS	NET TONS	REPORT WEEK	MOISTURE < 4%	ASH (DRY) < 7.0 %	SULFUR < 0.8%	BTU/LB > 13,000	ANALYSIS SAMPLE ID#	DAYS 7 MAX	TONS (500 MAX)	
				0.00							1	0	
				0.00									

3rd Quarter Weighted Averages:

0.00

0.00 0.00

0

3rd Quarter Total Tonnage:

0.00

#### **EASTERN KENTUCKY UNIVERSITY PO#**

#### 2016 - 4th Qtr

OLUB	TIOKET	TRUCK	WE	GHT	ANALYSIS (AS DELIVERED)									
SHIP	NO.	NO. NET LBS		NET TONS	REPORT WEEK	MOISTURE < 4%	ASH (DRY) < 7.0 %	SULFUR < 0.8%	BTU/LB > 13,000	ANALYSIS SAMPLE ID#	DAYS 7 MAX	TONS (500 MAX)		
				0.00							1	0		
				0.00										
		4th Qua	rter Weighte	ed Averages:		0.00	0.00	0.00	0	4th Quarter Tota	l Tonnage:	0.00		
		1st Qua	rter Weighte	ed Averages:		3.50	5.84	0.64	13,667	1st Quarter Tota	l Tonnage:	0.00		
		2nd Qua	rter Weighte	ed Averages:		2.95	5.41	0.67	13,434	2nd Quarter Tota	l Tonnage:	2,356.06		
		3rd Qua	rter Weighte	ed Averages:		0.00	0.00	0.00	0	3rd Quarter Tota	l Tonnage:	0.00		
			2016 weigh	ted average:		2.95	5.41	0.67	13434	2016	delivered:	2,356.06		

	Name of Sprayer			•										
	Oty		N)	,							2	ų.	5	
<b>Booth Log</b>	Product													
Paint Shop Spray Booth Log	Item	NOT IN USE					<i>→</i>					3.0		
Pa	End Time		, and											
	Start Time			·		to.							2.	
2016			Bug	Scot	oct	NON	DEC		t					