



EASTERN KENTUCKY UNIVERSITY

Serving Kentuckians Since 1906

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January 27, 2016

Mr. Jarrod Bell, Regional Supervisor
KY Division for Air Quality
Frankfort Regional Office
200 Fair Oaks Lane - 3rd Floor
Frankfort, KY 40601-1403

RE: Semi-Annual Monitoring Compliance Certification
July through December, 2015
Eastern Kentucky University, Source ID No. 21-151-00007
Permit No. V-14-004

Dear Mr. Bell,

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 Resources and Energy Management, if you have any questions.

Sincerely,

A handwritten signature in dark ink, appearing to read "D. Williams", with a long horizontal flourish extending to the right.

David Williams
Director, ECU Facilities Services

cc: Ron Mink
Barry Poynter
Bill Rhodes

Associate Director, Mechanical & Electrical
Vice President of Financial Affairs & Administration
Assistant Director of Environmental Resources & Energy Management
bill.rhodes@eku.edu 859 622-4104



Enclosures: Semi-Annual Summary Report for 2015; July-December
Heat Plant Steam Output 2015 Calendar Year
Monthly Output charts by days and weeks for 2015; November and December
Baghouse Differential Pressure 3 Hour Rolling Average for December 2015
Fuel Usage with HCl and HAP's calculations for 2015 (including 12 month rolling HCl tonnage)
Coal Deliveries and Analyses for 3rd and 4th Quarter 2015 with SO₂ and Particulate calculations
(no deliveries)
Paint Shop Spray Booth Log for 2015; July-December



EKU COMPLIANCE SEMI-ANNUAL SUMMARY REPORT
July Through December 2015
TITLE V AIR PERMIT No. V-14-004 (Source ID No. 21-151-00007)



TITLE V PERMIT MONITORING REQUIREMENT										
Monitor sulfur content and heat content in coal delivered	Deliveries to Heat Plant	Coal Boilers Rate of fuel use / Hours of operation		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 ₂ O	Paint spray booth hours of operation, coating type	Location of Monitor Records		
VERIFICATION METHOD										
Day Month Year	X = Delivery to Coal Facility; with analysis NA = no delivery	X = Coal moved from Coal Facility to Heat Plant NA = no delivery	Boiler No. 2 X = boiler in use NA = boiler not running	Boiler No. 4 X = boiler in use NA = boiler not running	Boiler No. 3 X = boiler in use NA = boiler not running	X = VE is 0 9 = Method 9 conducted NA = not running	Value = Daily Average Differential Pressure in inches H ₂ O NA = not running	X = paint booth hours and coating use monitored NA = not operating	N = Shared "N" Drive maintained by EKU IT	
DAILY LOG										
7/1/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/2/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/3/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/4/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/5/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/6/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/7/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/8/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/9/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/10/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/11/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/12/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/13/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/14/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/15/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/16/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/17/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/18/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/19/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/20/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/21/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/22/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/23/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/24/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/25/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/26/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/27/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/28/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/29/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/30/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
7/31/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
8/1/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
8/2/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
8/3/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
8/4/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
8/5/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
8/6/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
8/7/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
8/8/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
8/9/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	
8/10/15	NA	NA	NA	NA	NA	NA	0.00	NA	N	

Day Month Year	X = Delivery to Coal Facility; with analysis NA = no delivery	X = Coal moved from Coal Facility to Heat Plant NA = no delivery	Boiler No. 2 X = boiler in use NA = boiler not running	Boiler No. 4 X = boiler in use NA = boiler not running	Boiler No. 3 X = boiler in use NA = boiler not running	X = VE is 0 9 = Method 9 conducted NA = not running	Value = Daily Average Differential Pressure in inches H ₂ O NA = not running	X = paint booth hours and coating use monitored NA = not operating	N = Shared "N" Drive main- tained by EKU IT
	DAILY LOG								
8/11/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/12/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/13/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/14/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/15/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/16/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/17/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/18/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/19/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/20/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/21/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/22/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/23/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/24/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/25/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/26/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/27/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/28/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/29/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/30/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
8/31/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/1/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/2/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/3/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/4/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/5/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/6/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/7/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/8/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/9/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/10/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/11/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/12/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/13/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/14/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/15/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/16/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/17/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/18/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/19/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/20/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/21/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/22/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/23/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/24/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/25/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/26/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/27/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/28/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/29/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
9/30/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/1/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/2/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/3/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/4/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/5/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/6/15	NA	NA	NA	NA	NA	NA	0.00	NA	N

Day Month Year	X = Delivery to Coal Facility; with analysis NA = no delivery	X = Coal moved from Coal Facility to Heat Plant NA = no delivery	Boiler No. 2 X = boiler in use NA = boiler not running	Boiler No. 4 X = boiler in use NA = boiler not running	Boiler No. 3 X = boiler in use NA = boiler not running	X = VE is 0 9 = Method 9 conducted NA = not running	Value = Daily Average Differential Pressure in inches H ₂ O NA = not running	X = paint booth hours and coating use monitored NA = not operating	N = Shared "N" Drive main- tained by EKU IT
	DAILY LOG								
10/7/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/8/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/9/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/10/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/11/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/12/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/13/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/14/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/15/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/16/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/17/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/18/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/19/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/20/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/21/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/22/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/23/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/24/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/25/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/26/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/27/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/28/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/29/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/30/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
10/31/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/1/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/2/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/3/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/4/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/5/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/6/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/7/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/8/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/9/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/10/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/11/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/12/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/13/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/14/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/15/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/16/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/17/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/18/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/19/15	NA	NA	NA	NA	NA	NA	0.00	NA	N
11/20/15	NA	NA	NA	NA	X	NA	0.00	NA	N
11/21/15	NA	NA	NA	NA	X	NA	0.00	NA	N
11/22/15	NA	NA	NA	NA	X	NA	0.00	NA	N
11/23/15	NA	NA	NA	NA	X	NA	0.00	NA	N
11/24/15	NA	NA	NA	NA	X	NA	0.00	NA	N
11/25/15	NA	NA	NA	NA	X	NA	0.00	NA	N
11/26/15	NA	NA	NA	NA	X	NA	0.00	NA	N
11/27/15	NA	NA	NA	NA	X	NA	0.00	NA	N
11/28/15	NA	X	NA	NA	X	NA	0.00	NA	N
11/29/15	NA	X	NA	NA	X	NA	0.00	NA	N
11/30/15	NA	X	NA	NA	X	NA	0.00	NA	N
12/1/15	NA	X	NA	NA	X	NA	0.00	NA	N
12/2/15	NA	X	NA	NA	X	NA	0.00	NA	N

Day Month Year	X = Delivery to Coal Facility; with analysis NA = no delivery	X = Coal moved from Coal Facility to Heat Plant NA = no delivery	Boiler No. 2 X = boiler in use NA = boiler not running	Boiler No. 4 X = boiler in use NA = boiler not running	Boiler No. 3 X = boiler in use NA = boiler not running	X = VE is 0 9 = Method 9 conducted NA = not running	Value = Daily Average Differential Pressure in inches H ₂ O NA = not running	X = paint booth hours and coating use monitored NA = not operating	N = Shared "N" Drive main- tained by EKU IT
	DAILY LOG								
12/3/15	NA	X	NA	NA	X	NA	0.00	NA	N
12/4/15	NA	X	NA	NA	X	NA	0.00	NA	N
12/5/15	NA	X	NA	NA	X	NA	0.00	NA	N
12/6/15	NA	X	NA	NA	X	NA	0.00	NA	N
12/7/15	NA	X	NA	NA	X	NA	0.00	NA	N
12/8/15	NA	X	NA	X	X	9	0.00	NA	N
12/9/15	NA	X	NA	X	NA	9	2.53	NA	N
12/10/15	NA	X	NA	X	NA	X	3.14	NA	N
12/11/15	NA	X	NA	X	NA	X	3.05	NA	N
12/12/15	NA	X	NA	X	NA	X	3.06	NA	N
12/13/15	NA	X	NA	X	NA	X	2.89	NA	N
12/14/15	NA	X	NA	X	NA	X	3.17	NA	N
12/15/15	NA	X	NA	X	NA	X	3.08	NA	N
12/16/15	NA	X	NA	X	NA	9	3.31	NA	N
12/17/15	NA	X	NA	X	NA	X	2.84	NA	N
12/18/15	NA	X	NA	X	NA	X	2.80	NA	N
12/19/15	NA	X	NA	X	X	X	3.20	NA	N
12/20/15	NA	X	NA	X	NA	X	3.17	NA	N
12/21/15	NA	X	NA	X	NA	X	3.13	NA	N
12/22/15	NA	X	NA	X	NA	X	3.11	NA	N
12/23/15	NA	X	NA	X	NA	X	3.12	NA	N
12/24/15	NA	X	NA	X	NA	9	3.12	NA	N
12/25/15	NA	X	NA	X	NA	X	3.25	NA	N
12/26/15	NA	X	NA	X	NA	X	3.03	NA	N
12/27/15	NA	X	NA	X	NA	X	3.07	NA	N
12/28/15	NA	X	NA	X	NA	X	3.25	NA	N
12/29/15	NA	X	NA	X	NA	X	2.96	NA	N
12/30/15	NA	X	NA	X	NA	X	3.18	NA	N
12/31/15	NA	X	NA	X	NA	9	3.14	NA	N

Heat Plant Steam Output 2015



Monthly Totals, with Fuel & Water Usages

Month	Gas (Mcf)	Coal (Tons)	Ash (Tons)	Make-Up H ₂ O (Kgal)	Condensate Return (Cgal)	Percent Condensate 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	3,413	1,278	264	3,482	3,022	8%	0	0	10,424	24,453	34,877	1,125	47
February	1,900	1,322	174	3,397	4,488	12%	0	9,480	6,113	20,201	35,794	1,278	53
March	2,041	898	25	2,386	4,847	17%	0	16,332	8,634	6,301	31,267	1,009	42
April	3,171	320	13	1,580	3,911	20%	0	10,076	10,761	0	20,837	695	29
May	551	0	0	157	154	9%	0	0	1,903	0	1,903	61	3
June	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
August	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
October	0	0	0	0	0	0%	0	0	0	0	0	0	0
November	1,374	133	0	268	0	0%	0	0	1,928	0	1,928	64	3
December	1,800	997	17	1,033	1,013	9%	0	0	6,478	7,429	13,907	449	19
Year Totals	14,250	4,948	493	12,303	17,435	12%	0	35,888	46,241	58,384	140,513		
Percent Ash: 10.0%							Load Share		0.0%	25.5%	32.9%	41.6%	100%

Prorated Coal Usage

Month	Percent of Coal-Fired Steam			Boiler #1 Tons Burned	Boiler #2 Tons Burned	Boiler #4 Tons Burned	Total Tons Burned
	Boiler #1	Boiler #2	Boiler #4				
Jan	0.0%	0.0%	100.0%	0	0	1,278	1,278
Feb	0.0%	31.9%	68.1%	0	422	900	1,322
Mar	0.0%	72.2%	27.8%	0	648	250	898
Apr	0.0%	100.0%	0.0%	0	320	0	320
May	0.0%	0.0%	0.0%	0	0	0	0
Jun	0.0%	0.0%	0.0%	0	0	0	0
Jul	0.0%	0.0%	0.0%	0	0	0	0
Aug	0.0%	0.0%	0.0%	0	0	0	0
Sep	0.0%	0.0%	0.0%	0	0	0	0
Oct	0.0%	0.0%	0.0%	0	0	0	0
Nov	0.0%	0.0%	0.0%	0	0	0	0
Dec	0.0%	0.0%	100.0%	0	0	997	997
Total	0.0%	28.9%	71.1%	0	1,390	3,425	4,815

Weekly Steam Output with Fuel & Water Usage November 2015

First Week:

Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
1-Nov						0.0				0				#DIV/0!
2-Nov						0.0				0				#DIV/0!
3-Nov						0.0				0				#DIV/0!
4-Nov						0.0				0				#DIV/0!
5-Nov						0.0				0				#DIV/0!
6-Nov						0.0				0				#DIV/0!
7-Nov						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					Daily Averages									
Week Total: 0 KLbs					Coal: #DIV/0! Tons					Make-up Water: 0.0 Kgal				
Daily Avg: 0 KLbs					Ash: #DIV/0! Tons					Condensate Return: 0.0 Cgal				
Hourly Avg: 0.00 KLbs					Gas: #DIV/0! Mcf					City Water: 0.0 Kgal				

Second Week:

Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
8-Nov						0.0				0				#DIV/0!
9-Nov						0.0				0				#DIV/0!
10-Nov						0.0				0				#DIV/0!
11-Nov						0.0				0				#DIV/0!
12-Nov						0.0				0				#DIV/0!
13-Nov						0.0				0				#DIV/0!
14-Nov						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					Daily Averages									
Week Total: 0 KLbs					Coal: #DIV/0! Tons					Make-up Water: 0.0 Kgal				
Daily Avg: 0 KLbs					Ash: #DIV/0! Tons					Condensate Return: 0.0 Cgal				
Hourly Avg: 0.00 KLbs					Gas: #DIV/0! Mcf					City Water: 0.0 Kgal				

Third Week:

Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
15-Nov						0.0				0				#DIV/0!
16-Nov						0.0				0				#DIV/0!
17-Nov						0.0				0				#DIV/0!
18-Nov						0.0				0				#DIV/0!
19-Nov						0.0				0				#DIV/0!
20-Nov			66		0.0	0.0	0.0	0.0	3	2,624	20	2	0	1%
21-Nov			89		0.0	0.0	0.0	0.0	10	13,631	102	10	0	0%
Weekly Totals	0	0	155.07	0	0.0	0.0	0.0	0.0	13	16,255	122	12	0	17%
Steam Output					Daily Averages									
Week Total: 155 KLbs					Coal: 0.0 Tons					Make-up Water: 0.2 Kgal				
Daily Avg: 22 KLbs					Ash: 0.0 Tons					Condensate Return: 0.0 Cgal				
Hourly Avg: 0.92 KLbs					Gas: 6.4 Mcf					City Water: 17.4 Kgal				

Fourth Week:

Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
22-Nov			206		0.0	0.0	0.0	0.0	125	25,701	192	26		0%
23-Nov			231		0.0	0.0	0.0	0.0	296	27,227	204	27		0%
24-Nov			214		0.0	0.0	0.0	0.0	0	24,188	181	24		0%
25-Nov			289		0.0	0.0	0.0	0.0	160	34,982	262	40		0%
26-Nov			87		0.0	0.0	0.0	0.0	134	15,965	119	16		0%
27-Nov			158		0.0	0.0	0.0	0.0	236	24,014	180	24		0%
28-Nov			196		9.0	47.7	0.0	0.0	136	40,479	303	40		0%
Weekly Totals	0	0	1380.75	0	9.0	47.7	0.0	0.0	1,087	192,556	1,440	197	0	0%
Steam Output					Daily Averages									
Week Total: 1,381 KLbs					Coal: 6.8 Tons					Make-up Water: 2.8 Kgal				
Daily Avg: 197 KLbs					Ash: 0.0 Tons					Condensate Return: 0.0 Cgal				
Hourly Avg: 8.22 KLbs					Gas: 155.3 Mcf					City Water: 205.8 Kgal				

Fifth Week:

Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
29-Nov			251		8.0	42.4	0.0	0.0	119	38,174	286	38		0%
30-Nov			141		8.0	42.4	0.0	0.0	155	20,368	152	20		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	392	0	16.0	84.8	0.0	0.0	274	58,542	438	59	0	0%
Steam Output					Daily Averages									
Week Total: 392 KLbs					Coal: 42.4 Tons					Make-up Water: 2.9 Kgal				
Daily Avg: 196 KLbs					Ash: 0.0 Tons					Condensate Return: 0.0 Cgal				
Hourly Avg: 8.17 KLbs					Gas: 137.0 Mcf					City Water: 218.9 Kgal				

Sixth Week:

Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
						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					Daily Averages									
Week Total: 0 KLbs					Coal: #DIV/0! Tons					Make-up Water: #DIV/0! Kgal				
Daily Avg: #DIV/0! KLbs					Ash: #DIV/0! Tons					Condensate Return: #DIV/0! Cgal				
Hourly Avg: #DIV/0! KLbs					Gas: #DIV/0! Mcf					City Water: #DIV/0! Kgal				

Weekly Steam Output with Fuel & Water Usage December 2015

First Week:

Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
						0.0				0				#DIV/0!
						0.0				0				#DIV/0!
1-Dec			210		8.0	42.4	0.0	0.0	177	27,435	205	27	10	4%
2-Dec			214		8.0	42.4	0.0	0.0	209	26,512	198	27	16	6%
3-Dec			151		8.0	42.4	0.0	0.0	378	15,970	119	16	11	6%
4-Dec			292		8.0	42.4	0.0	0.0	239	42,305	316	42	22	5%
5-Dec			291		8.0	42.4	0.0	0.0	236	41,999	314	42	16	4%
Weekly Totals	0	0	1158	0	40.0	212.1	0.0	0.0	1,239	154,221	1,154	154	75	5%
Steam Output					Daily Averages									
Week Total: 1,158 KLbs					Coal: 42.4 Tons					Make-up Water: 3.1 Kgal				
Daily Avg: 232 KLbs					Ash: 0.0 Tons					Condensate Return: 15.1 Cgal				
Hourly Avg: 9.65 KLbs					Gas: 247.8 Mcf					City Water: 230.7 Kgal				

Second Week:

Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
6-Dec			265		4.0	21.2	0.0	0.0	213	28,111	210	28	20	7%
7-Dec			266		4.0	21.2	0.0	0.0	196	26,997	202	27	18	6%
8-Dec			4,785	97	4.0	21.2	0.0	0.0	143	37,597	281	38	30	7%
9-Dec				335	4.0	21.2	0.0	0.0	0	38,992	292	39	22	5%
10-Dec				283	6.0	31.8	0.0	0.0	0	24,694	185	25	25	9%
11-Dec				356	6.0	31.8	0.0	0.0	0	45,401	340	45	20	4%
12-Dec				405	6.0	31.8	0.0	0.0	0	48,293	361	48	32	6%
Weekly Totals	0	0	5316	1476	34.0	180.3	0.0	0.0	552	250,085	1,871	250	167	6%
Steam Output					Daily Averages									
Week Total: 6,792 KLbs					Coal: 25.8 Tons					Make-up Water: 3.6 Kgal				
Daily Avg: 970 KLbs					Ash: 0.0 Tons					Condensate Return: 23.9 Cgal				
Hourly Avg: 40.43 KLbs					Gas: 78.9 Mcf					City Water: 267.2 Kgal				

Third Week:

Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
13-Dec				350	6.0	31.8	0.0	0.0	0	34,193	256	34	68	17%
14-Dec				200	4.0	21.2	1.0	6.0	0	24,709	185	25	6	2%
15-Dec				225	4.0	21.2	1.0	6.0	0	24,635	184	25	6	2%
16-Dec				217	10.0	53.0	5.0	30.0	0	25,180	188	25	39	14%
17-Dec				201	5.0	26.5	0.0	0.0	0	22,529	169	23	45	17%
18-Dec				223	5.0	26.5	0.0	0.0	0	25,765	193	23	27	11%
19-Dec			4	419	11.0	58.3	0.0	0.0	9	49,323	369	46	40	8%
Weekly Totals	0	0	4	1835	45.0	238.6	7.0	42.0	9	206,334	1,543	201	231	10%
Steam Output					Daily Averages									
Week Total: 1,839 KLbs					Coal: 34.1 Tons					Make-up Water: 2.9 Kgal				
Daily Avg: 263 KLbs					Ash: 6.0 Tons					Condensate Return: 33.1 Cgal				
Hourly Avg: 10.95 KLbs					Gas: 1.3 Mcf					City Water: 220.5 Kgal				

Fourth Week:

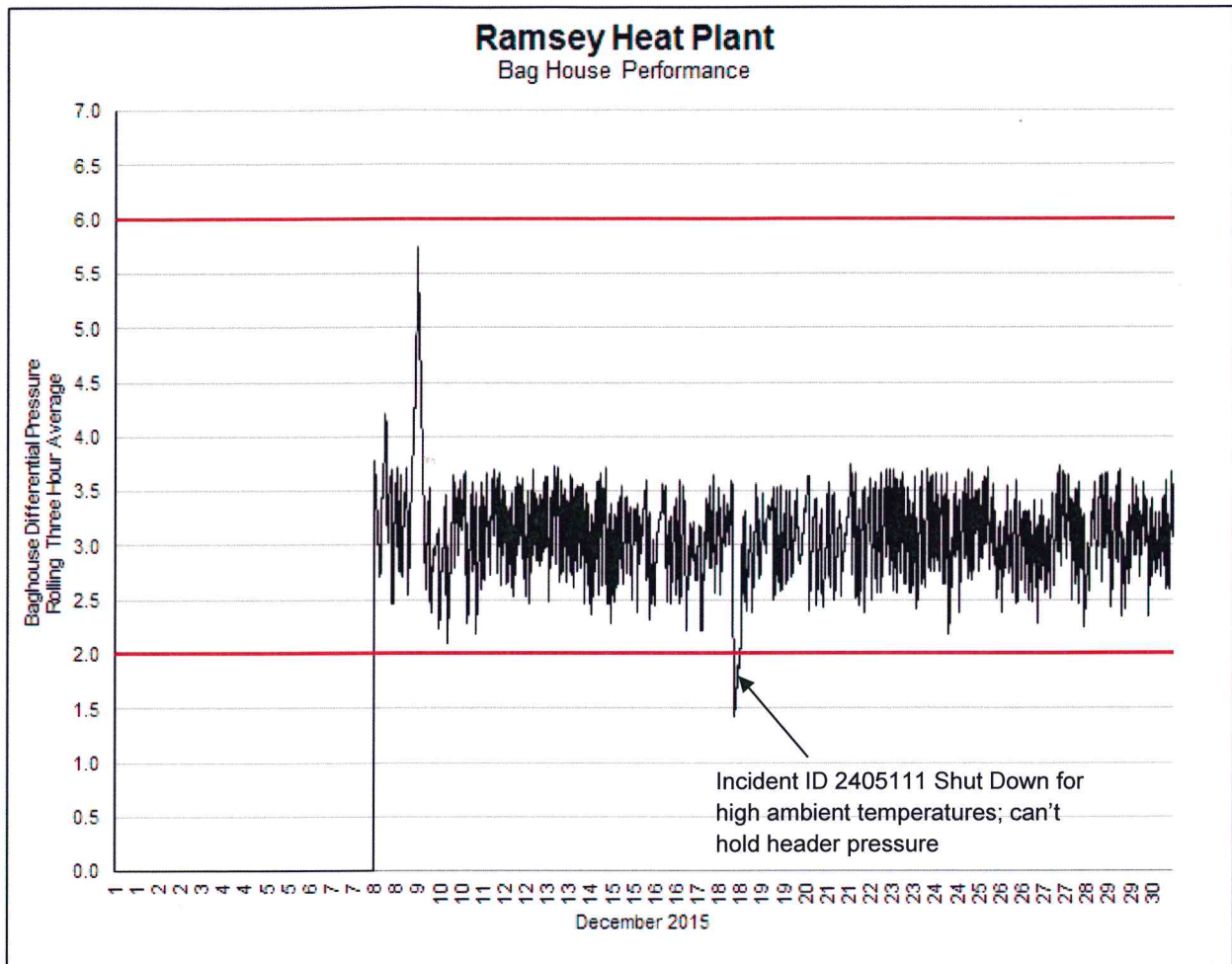
Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
20-Dec				486	6.0	31.8	0.0	0.0	0	45,781	342	45	88	16%
21-Dec				457	6.0	31.8	0.0	0.0	0	50,232	376	45	68	13%
22-Dec				351	7.0	37.1	0.0	0.0	0	35,714	267	33	70	17%
23-Dec				315	6.0	31.8	5.0	30.0	0	34,089	255	33	54	14%
24-Dec				269	5.0	26.5	0.0	0.0	0	31,085	233	28	33	10%
25-Dec				321	4.0	21.2	0.0	0.0	0	37,564	281	36	26	7%
26-Dec				309	4.0	21.2	0.0	0.0	0	38,897	291	35	22	6%
Weekly Totals	0	0	0	2508	38.0	201.5	5.0	30.0	0	273,362	2,045	255	360	12%
Steam Output					Daily Averages									
Week Total: 2,508 KLbs					Coal: 28.8 Tons					Make-up Water: 3.6 Kgal				
Daily Avg: 358 KLbs					Ash: 4.3 Tons					Condensate Return: 51.5 Cgal				
Hourly Avg: 14.93 KLbs					Gas: 0.0 Mcf					City Water: 292.1 Kgal				

Fifth Week:

Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
27-Dec				402	5.0	26.5	0.0	0.0	0	41,430	310	41	38	8%
28-Dec				227	7.0	37.1	0.0	0.0	0	30,654	229	27	16	6%
29-Dec				385	7.0	37.1	0.0	0.0	0	38,503	288	41	34	8%
30-Dec				244	6.0	31.8	5.0	30.0	0	36,171	271	28	39	12%
31-Dec				352	6.0	31.8	0.0	0.0	0	33,323	249	36	51	12%
						0.0								#DIV/0!
						0.0								#DIV/0!
Weekly Totals	0	0	0	1610	31.0	164.4	5.0	30.0	0	180,081	1,347	173	178	9%
Steam Output					Daily Averages									
Week Total: 1,610 KLbs					Coal: 32.9 Tons					Make-up Water: 3.5 Kgal				
Daily Avg: 322 KLbs					Ash: 6.0 Tons					Condensate Return: 35.6 Cgal				
Hourly Avg: 13.42 KLbs					Gas: 0.0 Mcf					City Water: 269.4 Kgal				

Sixth Week:

Date	KLbs Steam Generated per Day				Boilers 1, 2 & 4 Coal		Boilers 1, 2 & 4 Fly Ash		Boiler 3 Gas	City Water Cu Ft	City Water Kgal	Make-up Water Kgal	Cndnsate Return Cgal	Percent Return
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Loads	Tons	Loads	Tons	Mcf					
						0.0								#DIV/0!
						0.0								#DIV/0!
						0.0								#DIV/0!
						0.0								#DIV/0!
						0.0								#DIV/0!
						0.0								#DIV/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					Daily Averages									
Week Total: 0 KLbs					Coal: #DIV/0! Tons					Make-up Water: #DIV/0! Kgal				
Daily Avg: #DIV/0! KLbs					Ash: #DIV/0! Tons					Condensate Return: #DIV/0! Cgal				
Hourly Avg: #DIV/0! KLbs					Gas: #DIV/0! Mcf					City Water: #DIV/0! Kgal				



Fuel Usage and Area Source Emissions



Month	Coal Used EU 02 (Tons)	Coal Used EU 04 (Tons)	Coal 12 Month Rolling Total (Tons)	HCl EU 02 (Tons)	HCl EU 04 (Tons)	HCl (Tons)	HCl 12 Month Rolling Total (Tons)	Heat Plant Natural Gas (MMSCF)	Other Nat Gas Used (MMSCF)	Diesel Burned (1000 Gal)	Paint Sprayed (Gal)	HAPs _{1a} EU 02 Coal (Lbs)	HAPs _{1b} EU 04 Coal (Lbs)	HAPs ₂ Natural Gas (Lbs)	HAPs ₃ Diesel (Lbs)	HAPs ₄ Paint (Lbs)	HAPs ₅ Other (Lbs)	Total HAPs (Tons)	HAPs 12 Month Rolling Total (Tons)	
Title V Limits:							9.0												22.5	
2015	January	0.0	1,278.3	5,896	0.00	0.22	0.22	3.12	3.413	13.437	0.66	0.00	0	639	31.8	0.35	0.00	500	0.59	6.73
	February	422.4	900.0	6,017	0.33	0.15	0.48	3.39	1.900	12.722	0.84	0.00	211	450	27.6	0.44	0.00	500	0.59	6.75
	March	648.1	250.0	5,885	0.50	0.04	0.54	3.76	2.041	10.989	1.39	0.00	324	125	24.6	0.74	0.00	500	0.49	6.71
	April	319.6	0.0	6,066	0.25	0.00	0.25	3.99	3.171	10.784	0.96	0.00	160	0	26.4	0.51	0.00	500	0.34	6.76
	May	0.0	0.0	6,066	0.00	0.00	0.00	3.99	0.551	9.332	0.52	0.00	0	0	18.7	0.27	0.00	500	0.26	6.76
	June	0.0	0.0	6,066	0.00	0.00	0.00	3.99	0.000	6.411	0.68	0.00	0	0	12.1	0.36	0.00	500	0.26	6.76
	July	0.0	0.0	6,066	0.00	0.00	0.00	3.99	0.000	6.421	0.72	0.00	0	0	12.1	0.38	0.00	500	0.26	6.76
	August	0.0	0.0	6,066	0.00	0.00	0.00	3.99	0.000	6.500	1.02	0.00	0	0	12.3	0.54	0.00	500	0.26	6.76
	September	0.0	0.0	6,066	0.00	0.00	0.00	3.99	0.000	11.725	1.19	0.00	0	0	22.2	0.63	0.00	500	0.26	6.76
	October	0.0	0.0	6,066	0.00	0.00	0.00	3.99	0.000	16.305	0.55	0.00	0	0	30.8	0.29	0.00	500	0.27	6.76
	November	0.0	0.0	5,074	0.00	0.00	0.00	2.88	1.374	18.656	0.70	0.00	0	0	37.9	0.37	0.00	500	0.27	5.59
	December	0.0	1,129.4	4,948	0.00	0.19	0.19	1.68	1.800	9.581	0.73	0.00	0	565	21.5	0.38	0.00	500	0.54	4.38

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

2015 - 3rd Qtr

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

3rd Quarter Total Tonnage: 0.00

EASTERN KENTUCKY UNIVERSITY

2015 - 4th Qtr

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

4th Quarter Total Tonnage: 0.00

