

AK Steel WER PRV Project Production Update: AUGUST

1. 2013-2015 Electric Usage Update:

- a. Per request AKS has update its 3 year running average of electricity usage to include June of 2015. See below.
- b. 3 Year Average kWh Usage: 1,358,559,457.67 kWh
- c. Annual Energy Efficiency Savings target: 13,585,594.58 kWh

2. July 2015 Production:

- a. August 2015 Ancillary Usage: 67.06 kWh
 - i. Auxiliary Oil Pump: 66.22 kWh
 - 1. Only runs for a short time at startup.
 - ii. Turbine Controls: 0.83 kWh
 - 1. Very low power draw.
- b. August 2015 Turbine Production: 486,571 kWh



(Meter Read on August XX, 2105.)

- c. Net Production: 1,047,679 kWh**

3. Shortfall Explanation:

- a. Annual Downtime: From July 24th 2015 through August 3rd 2015 the PRV turbine was not operating due to the fact that AKS had their annual “Hot Side” downturn for maintenance. This resulted in no steam being available for this duration to run the turbine. This is a once a year occurrence and while it affects this month’s production it should NOT affect the subsequent months. AKS, per agreement, will continue to provide monthly updates showing this calculation.

NOTE- Same update from last month due to overlap into August.

- b. AK Steel had to run the turbine at a reduced production level for 2 weeks of August (about 660kw) of the 1.125 MW name plate capacity due to a downstream steam line issue. With the turbine providing higher temperature steam to the 165 psi and 10 psi lines (a good thing for overall AK Operations and part of the reason for the project) temporary patches that had been made to the 10 psi started to fail. While these patches were fixed with permanent repairs the 10 psi lines had to be shut off resulting in the reduced turbine production due to a lack of place to put the excess steam.

4. Projected Rider Exemption Length:

These calculations will be updated every month as production is realized.

- a. At August production level:
 - i. Three year average usage: 1,358,559,457.67 kWh
 - ii. 1% of three year average: 13,585,594.58 kWh
 - iii. (Production*12 months)/ 1% of three year average: 43%
 - iv. Percent of goal * 365 days: 156.87 days of exemption or 6 months.
- b. At expected production level: (Without the shutdown for the rest of the year.)
 - i. Three year average usage: 1,358,559,457.67
 - ii. 1% of three year average: 13,585,594.58 kWh
 - iii. (Production*12 months)/ 1% of three year average: 58%
 - iv. Percent of goal * 365 days: 211.43 days of exemption, 7.1 months

5. Supporting Data:

- a. Calculations and Usage Calc

12-Jul	107,728,000.00		
12-Aug	112,092,000.00		
12-Sep	105,263,000.00		
12-Oct	103,093,000.00		
12-Nov	100,689,000.00		
12-Dec	105,271,000.00		
2012 Partial Total	634,136,000.00		
2013 Total	1,321,254,000.00		
14-Jan	120,060,438.00		
14-Feb	113,311,859.00		
14-Mar	118,879,882.00		
14-Apr	115,084,446.00		
14-May	127,110,658.00		
14-Jun	124,848,610.00		
14-Jul	117,374,679.00		
14-Aug	118,016,930.00		
14-Sep	121,590,263.00		
14-Oct	121,311,936.00		
14-Nov	91,450,368.00		
14-Dec	121,311,936.00		
2014 Total	1,410,352,005.00		
15-Jan	123,670,080.00		
15-Feb	112,297,248.00		
15-Mar	124,898,112.00		
15-Apr	118,619,712.00		
15-May	108,821,952.00		
15-Jun	121,629,264.00		
2015 Partial Total	709,936,368.00		
3 Year Average	1,358,559,457.67		
Annual Goal	13,585,594.58		
Annual Production	At July Rate	At Expected Production	
	6,732,684.00	9,074,487.13	
Percent of Goal	0.50	0.667949207	
Days of Exemption	180.88	243.8014607	

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Summary: Report August 2015 WER generation report and rider exemption recalculation electronically filed by Mr. Lucas M Dixon on behalf of Dixon , Lucas M Mr. and Plug Smart and The AK Steel Corporation