

AK Steel Energy Efficiency Rider Exemption

PUCO Docket # 15-0442

Savings Report:

Committed Project Overview: AK Steel installed retrofit lighting to replace existing mix of quartz halogen, T12, metal halide, and high pressure sodium fixtures. The fixtures were run either 24 or 12 hours per day, 365 days per year as plant activity persisted 8,760 hours per year. AK Steel agreed to commit the energy savings generated from the energy efficient lighting upgrades equal to 2,107,247 kWh per year for the life of the equipment. Expected life is 8 years.

Project Timeline/Rider Exemption Timeline: The project was placed in commercial operation by February 2nd, 2015. As of the date of this report, AK Steel has realized savings of 1,951,368 kWh.

Rider Exemption Calculations:

Annual kWh Savings= 2,107,247 kWh annual savings

The average annual total electricity consumption for AK Steel Middletown Works over the past three years is 1,310,095.9 MWh. (2013-2011)

Total Usage for 2011 was 1,302,509 MWH

Total Usage for 2012 was 1,315,525 MWH

Total Usage for 2013 was 1,321,254 MWH

Since 1% annual reduction is required to offset the rider for the year 2015, the annual rider reduction requirement is: $0.01 * 1,310,096 \text{ MWh} = 13,100,960 \text{ kWh}$.

This project will offset $2,107,247 \text{ kWh} / 13,100,960 \text{ kWh} = 16\%$ of the annual rider requirement

$365 \text{ days per year} \times 16\% = 58 \text{ days of rider exemption}$

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Case No(s). 15-0442-EL-EEC

Summary: Annual Report The purpose of this annual report is to document the savings realized from replacing inefficient lighting at AK Steel. electronically filed by Mr. Lucas M Dixon on behalf of Plug Smart and Dixon , Lucas M Mr. and The AK Steel Corporation