

# EDC/SaveGas Property Commissioning Report

Report Creation: 7/19/2011 7:32:18 PM



Client: Atria Senior Living Group

Property: Atria Encinitas South

PropID: 1686

Initial State: System has two water heaters with one return loop. EDC control was installed on 3/13/2009. The system was monitored for 1 months with delivery temperature fluctuations from 108 to 120 degrees and return loop loss of 3-6 degrees.

Steps Taken: Since system was healthy no changes were made at the property level. Based on the analyzed demand, we established the appropriate savings schedule. The control was put into a savings schedule on 4/14/2009. Temperatures set points were adjusted for better boiler operation and gas usage savings.

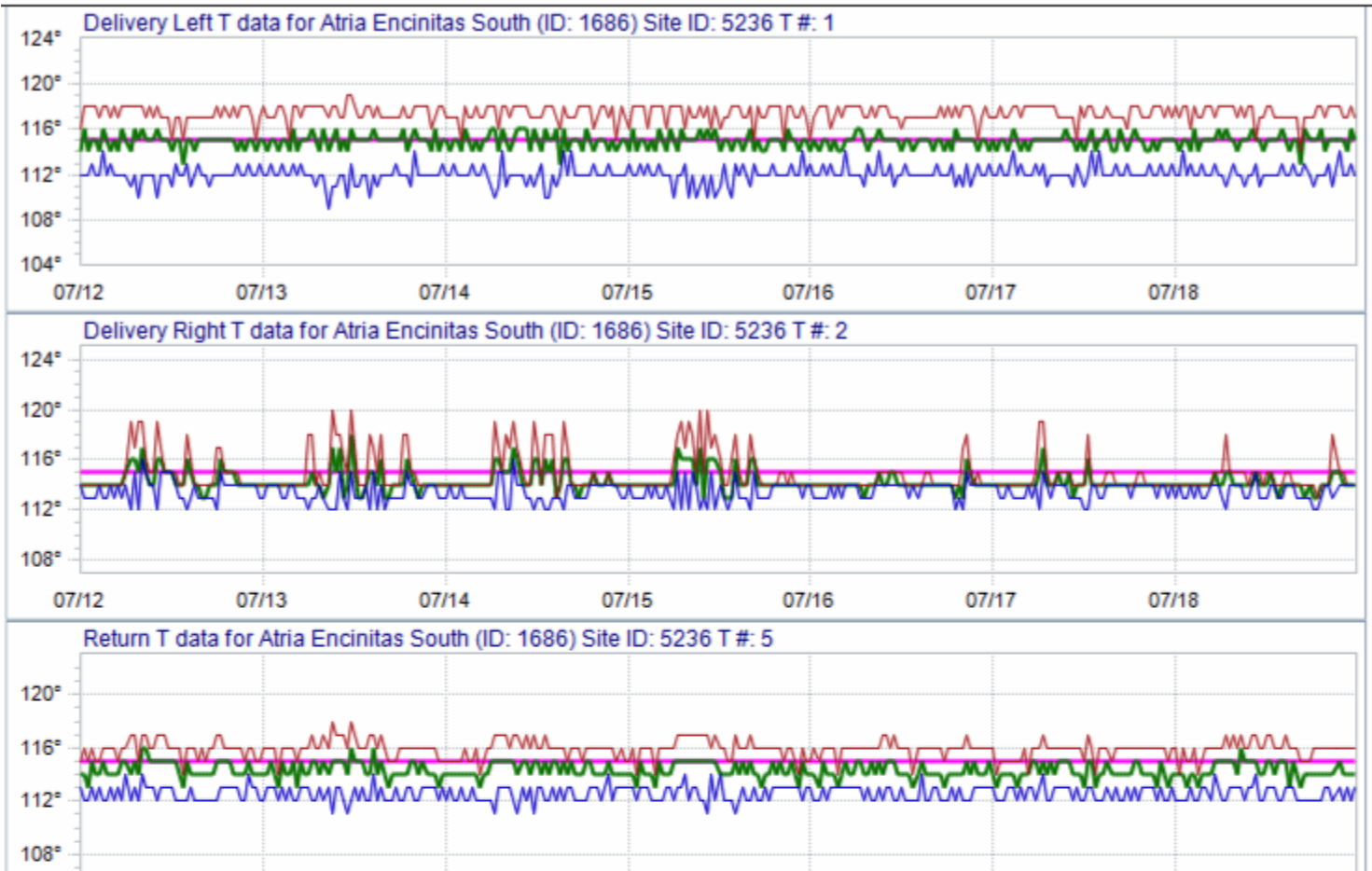
End Result: Improvements to system operation are seen through more consistent temperatures delivered to guests, and reductions in temperature fluctuation in the delivery.

Summary: Since the initial EDC control was in 2009 the savings analysis was outdated. To get accurate data we ran a new base line schedule during 7/12-7/18/2011 and compared it to controlled operation from 7/4-7/10/2011. The gas usage was reduced by 26.5% in controlled operation vs standard operation.

% Saved: 26.50 %

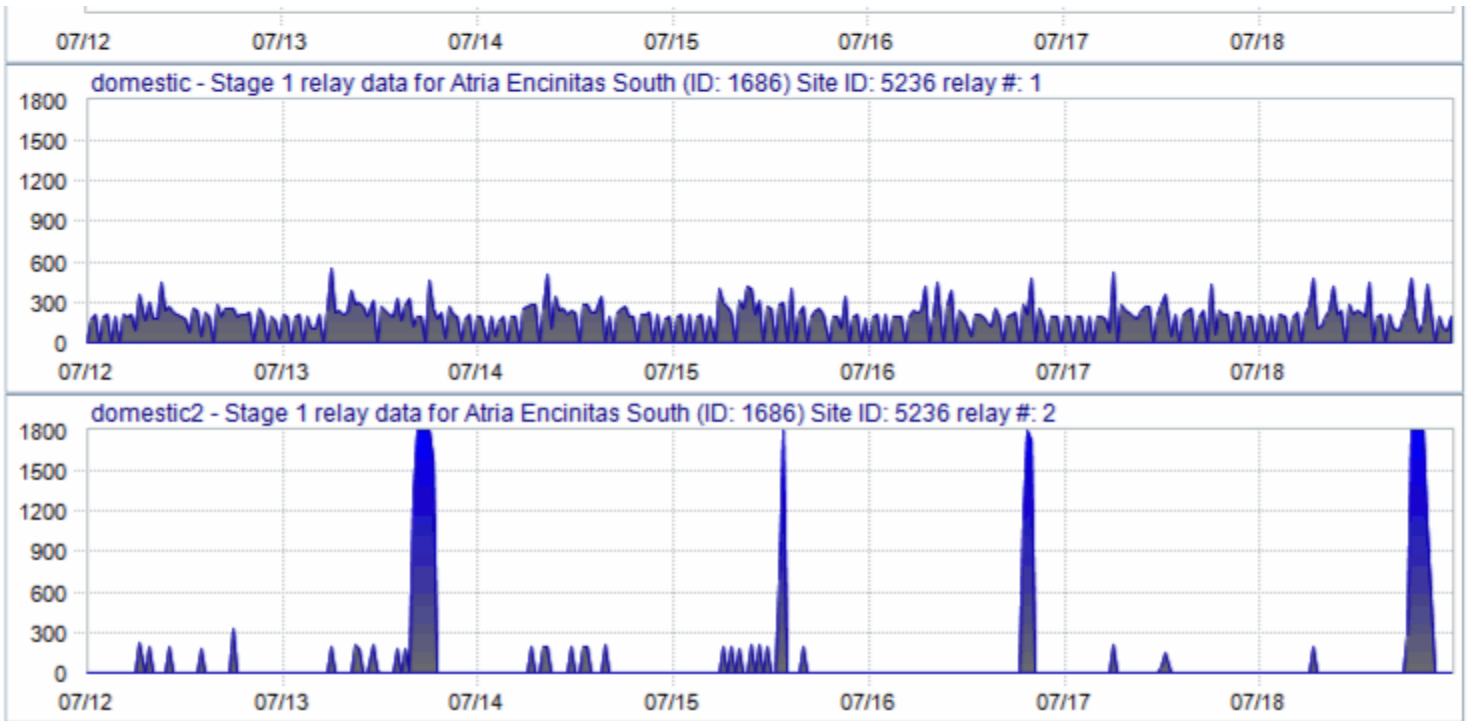
Illustrations of Process:

## Standard Operation

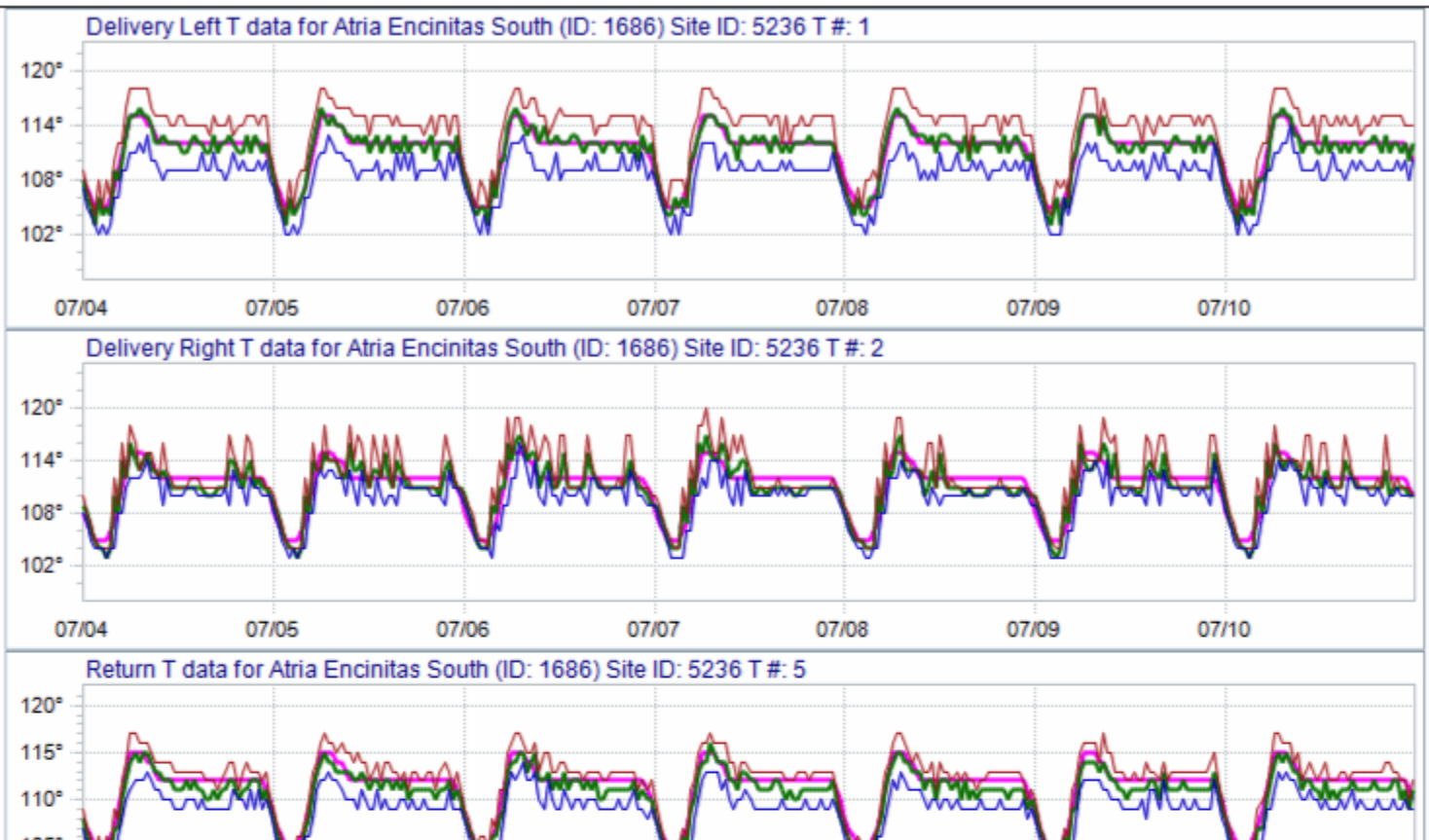


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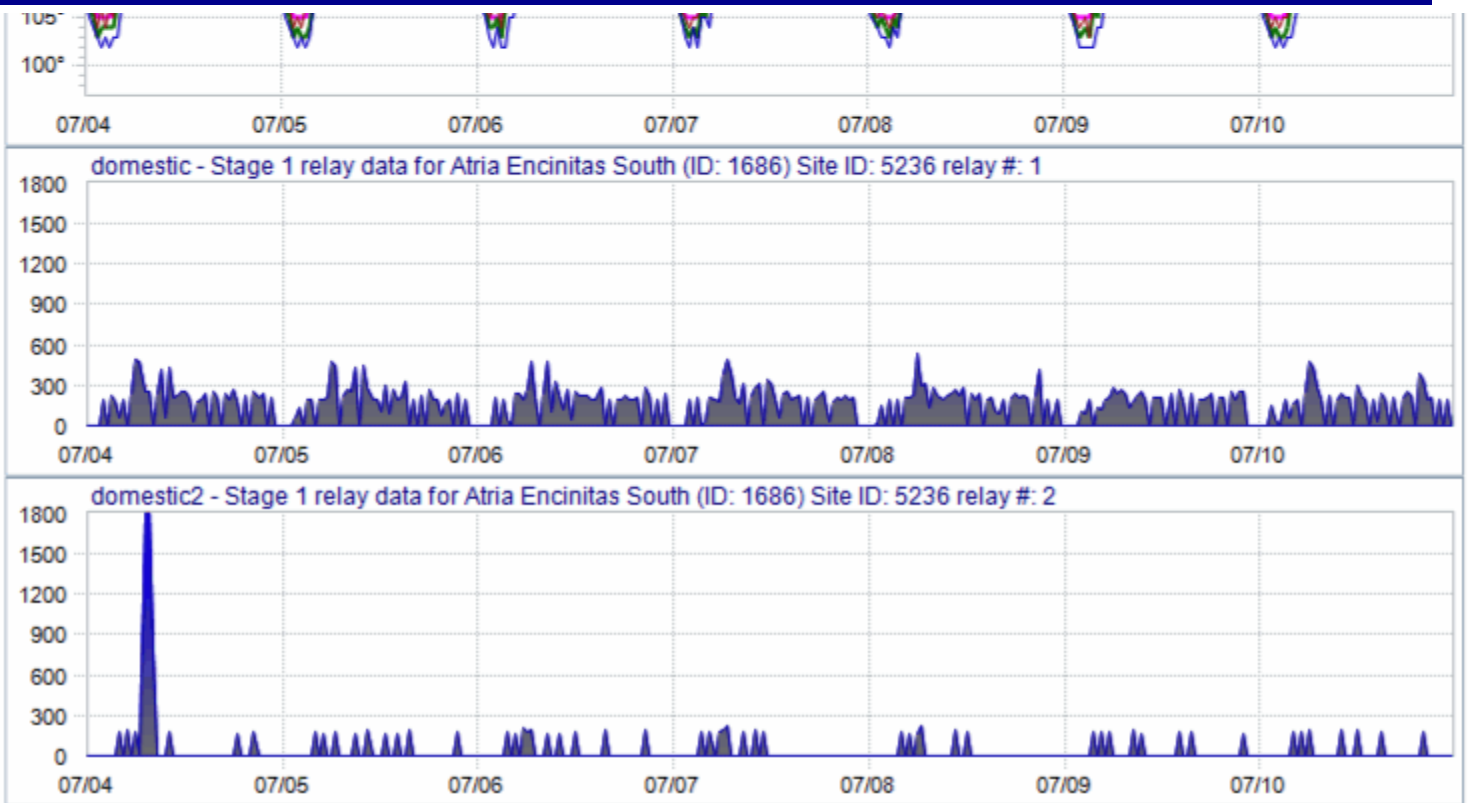


## Controlled Operation



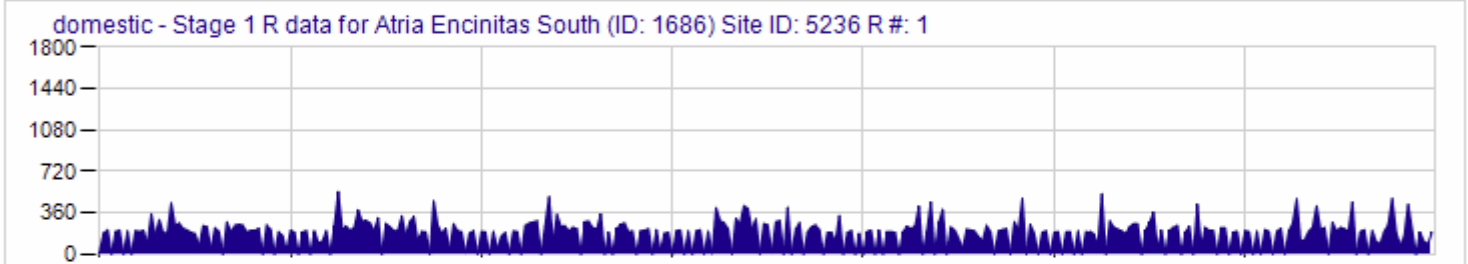
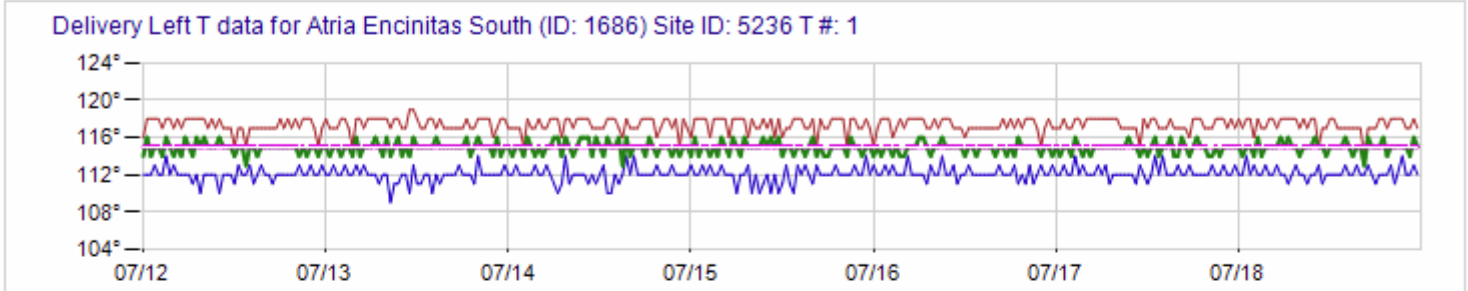
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## Economic Analysis

Manuf	Device Name	Name Plate BTUs	Adj Therms Per Hr	Hrs Day DS1	Hrs Day DS2	Therms Day DS1	Therms Day DS2	Therms Saved Mth	% Saved	Therms Saved Yr	Dollars Saved Mth	Dollars Saved Yr
American	domestic - Stage 1	250000	2.50	2.40	2.12	6.01	5.30	21	11.9 %	260	\$21.38	\$260.06
American	domestic2 - Stage 1	250000	2.50	1.24	0.56	3.11	1.40	51	55.0 %	625	\$51.33	\$624.56
					<b>Total</b>	<b>9.12</b>	<b>6.70</b>	<b>72</b>	<b>26.5 %</b>	<b>885</b>	<b>72.71</b>	<b>884.62</b>



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