

# EDC/SaveGas Property Commissioning Report

Report Creation: 7/14/2011 5:20:51 PM



Client: Reneson Hotels

Property: Hilton Garden Inn

PropID: 3055

Initial State: EDC control was installed on 3/14/2011 and put into a monitor mode for 1 month period. During the monitoring period the delivery temperatures fluctuated from 126 to 129 degrees with Return temperatures fluctuating from 114 to 126 degrees.

Steps Taken: Since the systems normal operation was healthy and there were no issues identified, no changes were necessary at the property level. The EDC control was put into control mode on 5/25/2011. The EDC control was configured to have the boilers operate as lead / lag with current set points of 127 degrees during the demand period and 108 degrees during the off period. Note, boilers were set to lead lag in order to get equal boiler run times and overall better system operation.

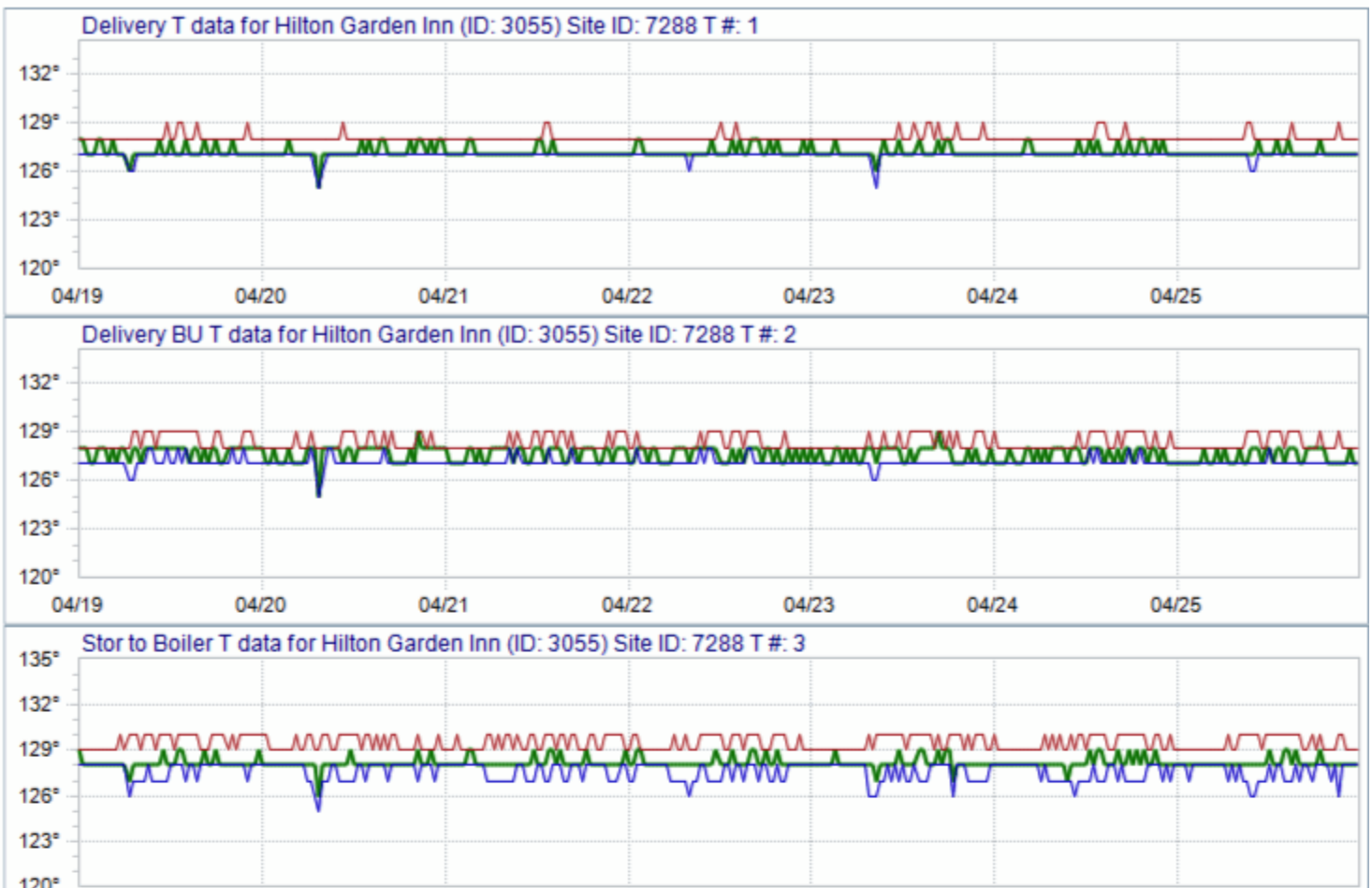
End Result: Significant improvements to the systems operation were seen via more consistent temperatures being delivered to guests in addition to reductions in delivery temperatures fluctuations.

Summary: Installed control, monitored for 1 month, placed into standard schedule, then tuned control to current settings. The gas usage was reduced by 24.8% in controlled operation vs standard operation.

% Saved: 24.80 %

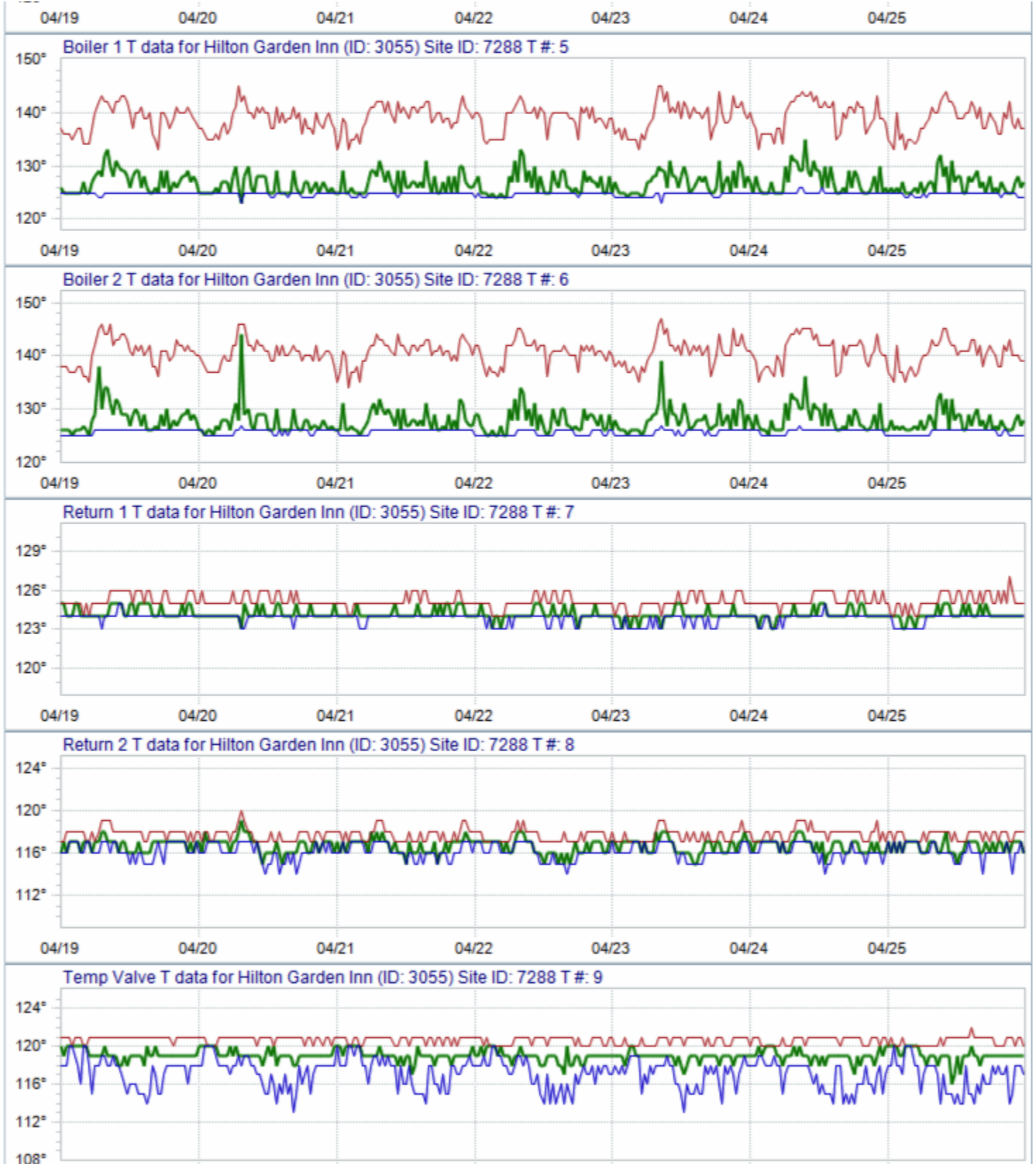
Illustrations of Process:

## Initial Monitor Mode



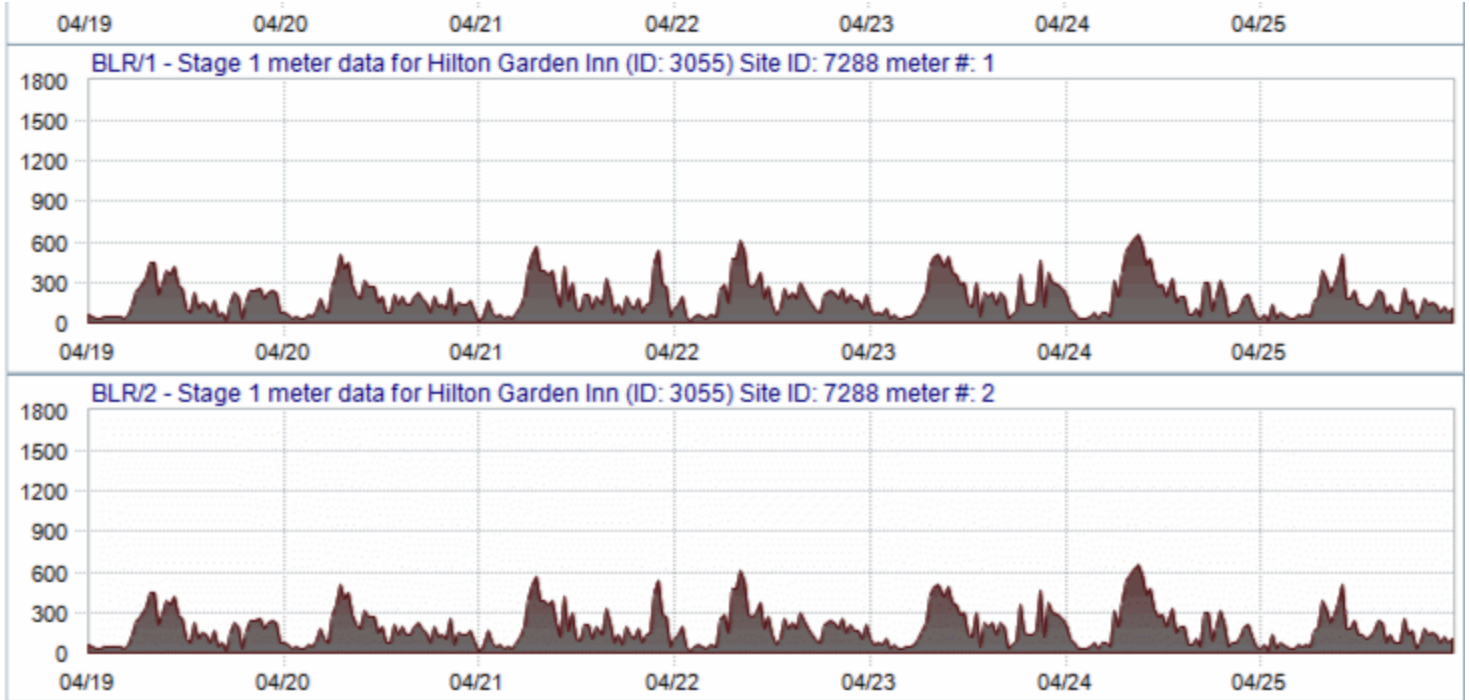
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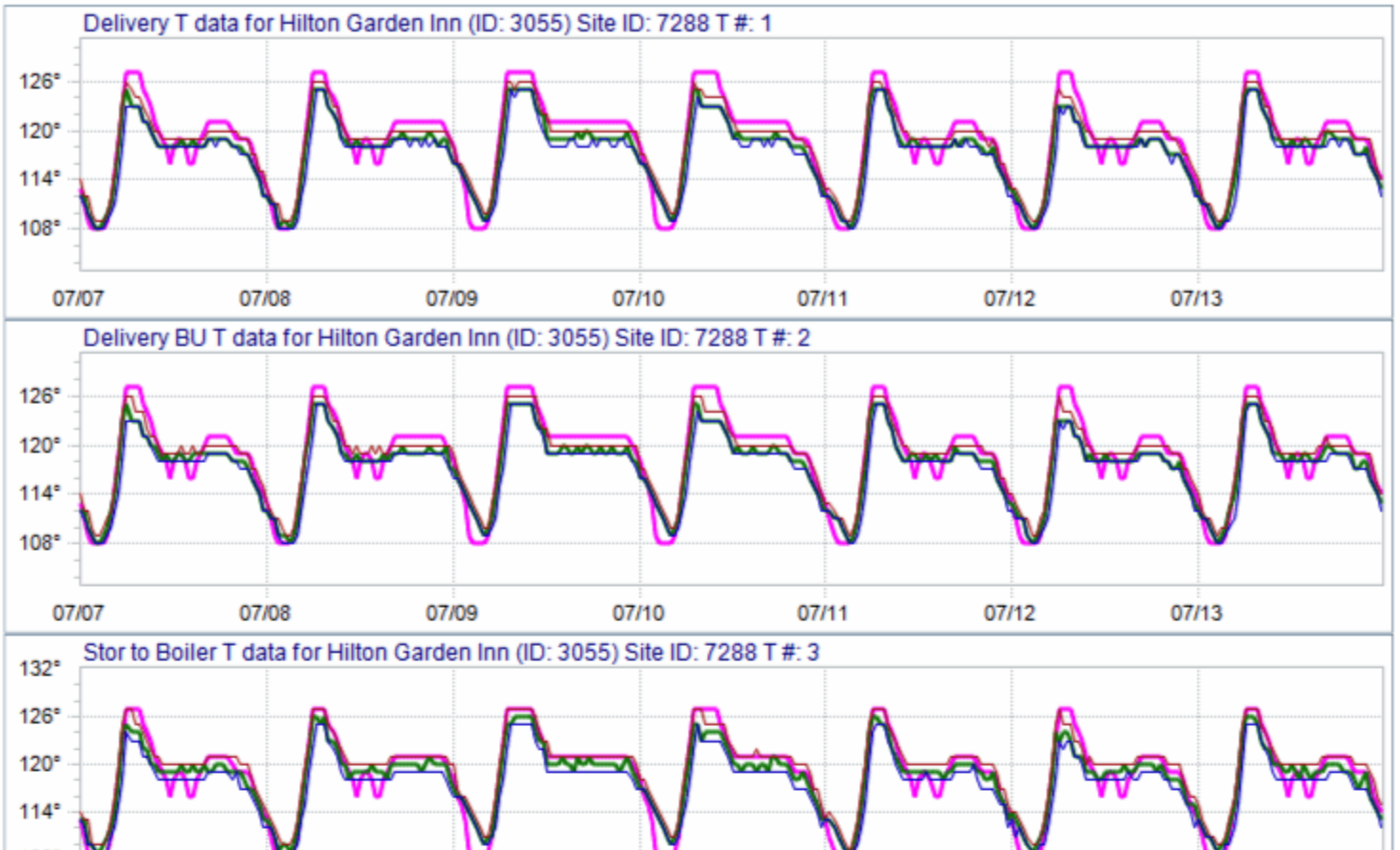


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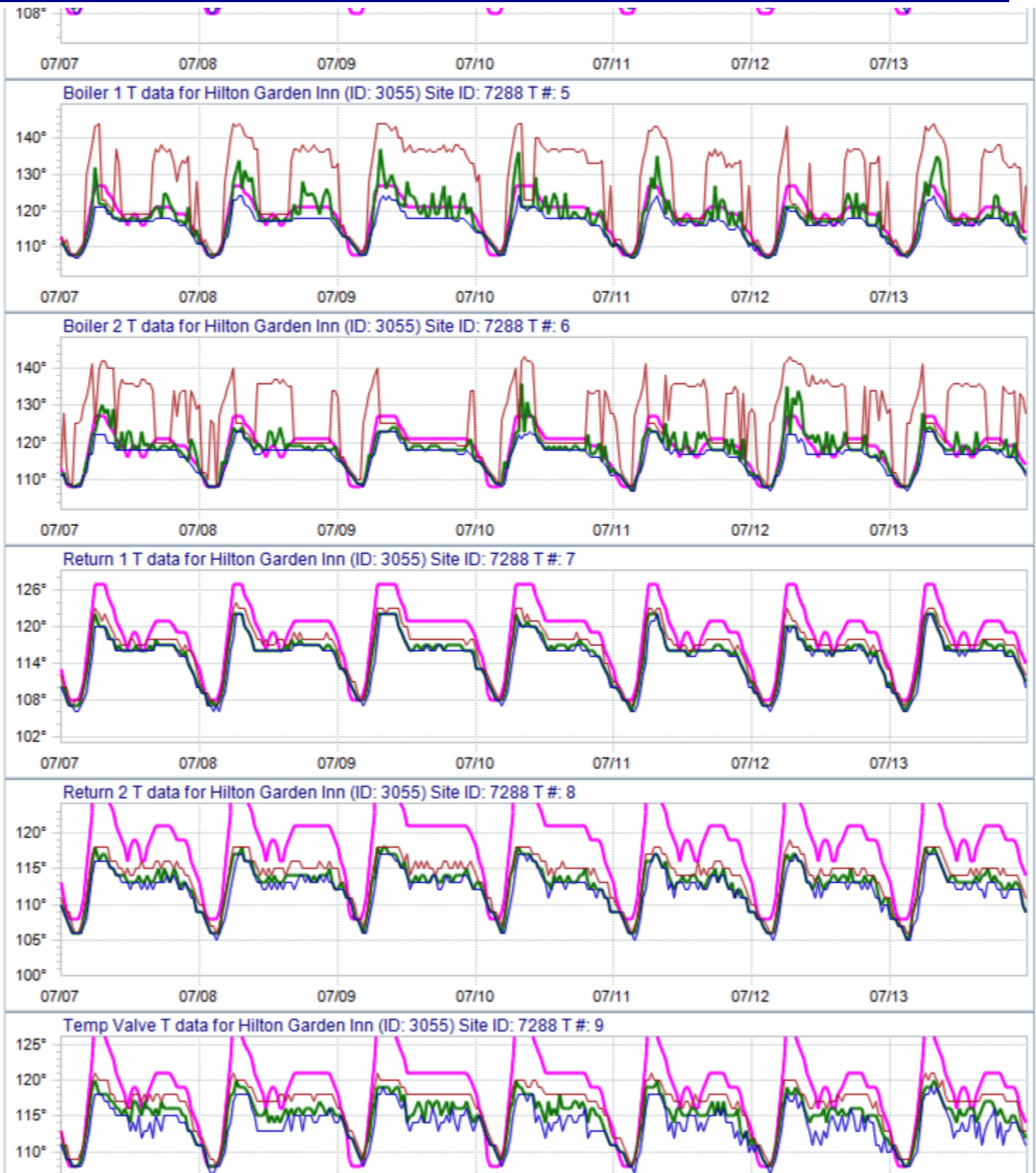


## EDC Controls in Savings Mode



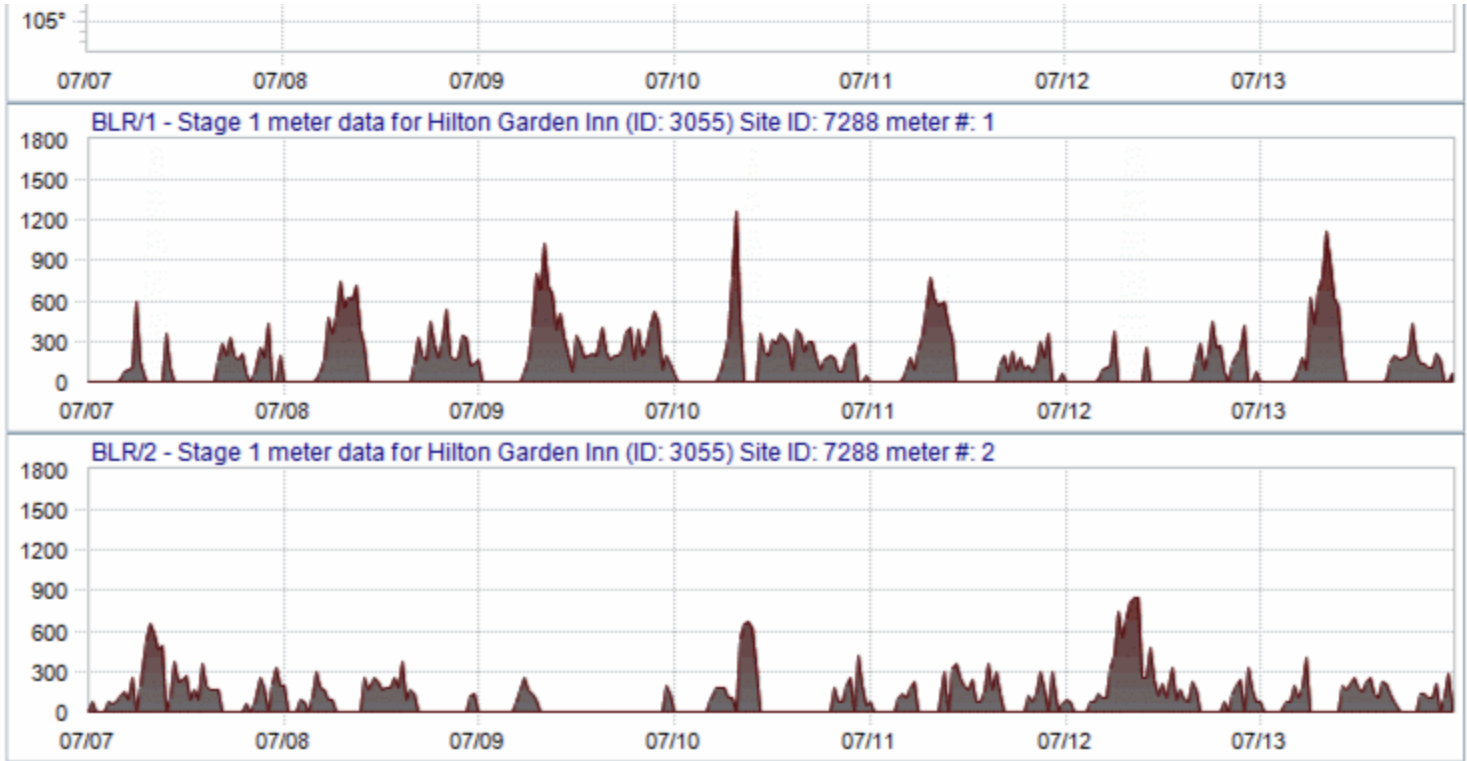
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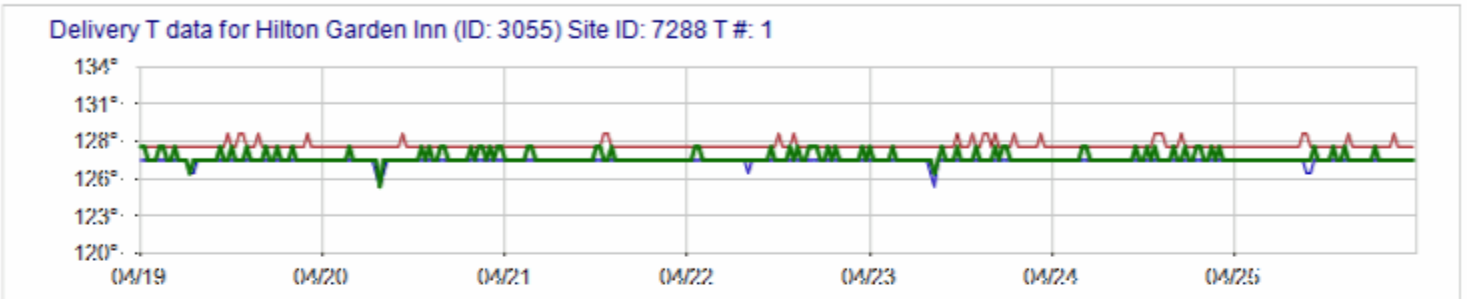
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## Savings Analysis

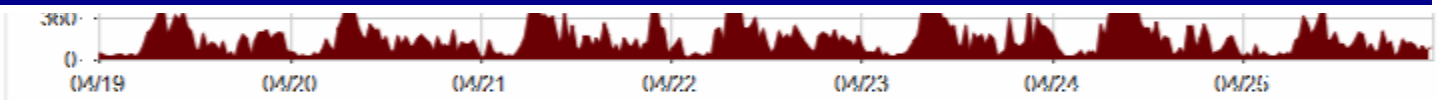
utility cost of gas: 0.9233 cost of gas used for analysis: 0.9233 nameplate burn ratio: 1.0

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
Laars Mighty Therm	BLR/1 - Stage 1	600000	6.00	2.44	2.17	14.64	13.01	49	11.2 %	596	\$45.24	\$550.44
Laars Mighty Therm	BLR/2 - Stage 1	600000	6.00	2.44	1.50	14.64	9.00	169	38.5 %	2,057	\$156.13	\$1,899.58
						<b>Total</b>	<b>29.28</b>	<b>22.01</b>	<b>24.8 %</b>	<b>2,653</b>	<b>201.37</b>	<b>2,450.02</b>

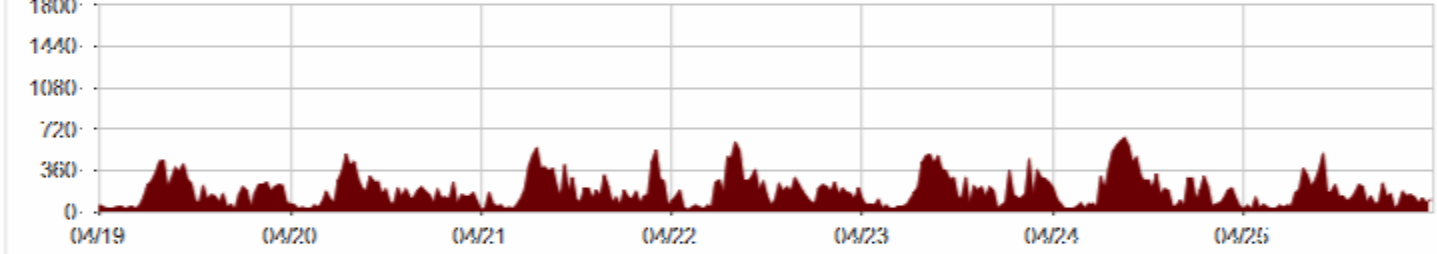


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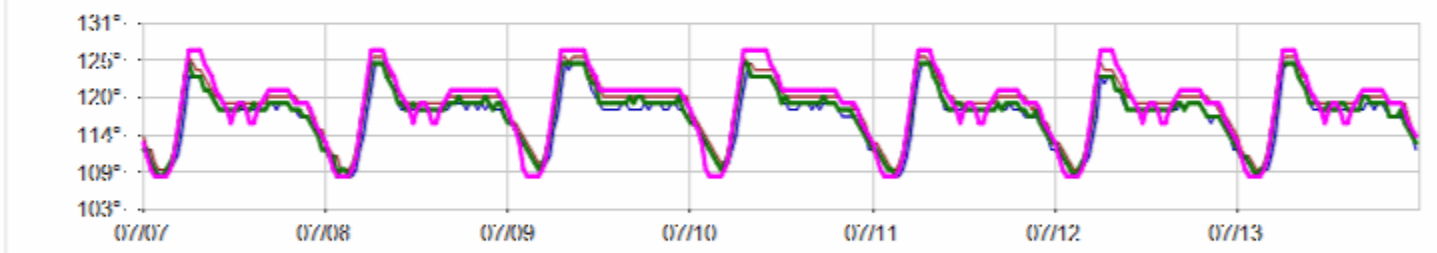
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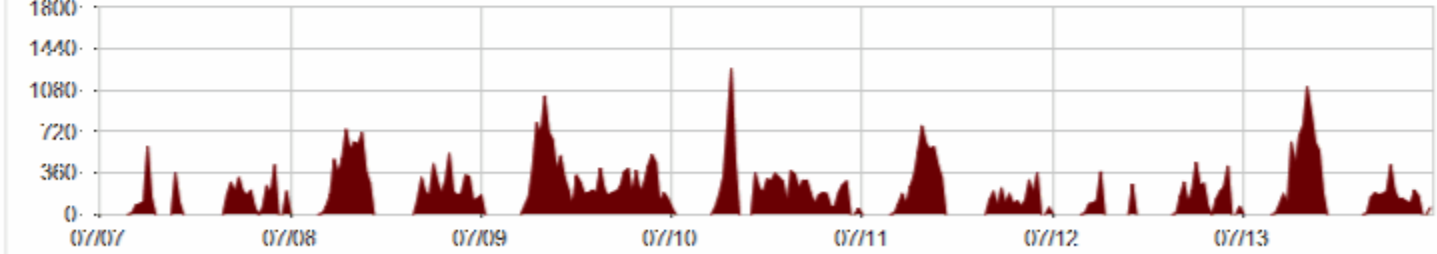
BLR/2 - Stage 1 M data for Hilton Garden Inn (ID: 3055) Site ID: 7288 M #: 2



Delivery T data for Hilton Garden Inn (ID: 3055) Site ID: 7288 T #: 1



BLR/1 - Stage 1 M data for Hilton Garden Inn (ID: 3055) Site ID: 7288 M #: 1



BLR/2 - Stage 1 M data for Hilton Garden Inn (ID: 3055) Site ID: 7288 M #: 2

