

# Mount Vernon High School – Database Notes

Table 1 Database Notes

<b>Data Collection</b>	<u>Data Logger:</u> <u>Data Collection Interval:</u> <u>Collection Method:</u>	Kraft data logger 15 Min Email file submission
<b>Site Information</b>	<u>Cogeneration Units:</u> <u>Nameplate Capacity:</u> <u>Heat Recovery Medium:</u> <u>Heat Recovery Uses:</u> <u>Excess Heat:</u>	Marathon 431RSL4009400 kW 150 kW Hot Water
<b>DG/CHP Generator Electrical Output</b>	<u>Engineering Units:</u> <u>Energy Measurement (net/gross):</u> <u>Measurement Type:</u>	kWh Gross Interval kWh
<b>DG/CHP Generator Electrical Output Demand</b>	<u>Engineering Units:</u> <u>Measurement Type:</u>	kW Instantaneous kW Output
<b>DG/CHP Generator Fuel Input</b>	<u>Engineering Units:</u> <u>Measurement type:</u>	cf Accumulated Gas readings
<b>DG/CHP Useful Heat Recovery</b>	<u>Engineering Units:</u> <u>Heat Measurement Type:</u>	MBtu BTU meter accumulated value converted to hourly
<b>DG/CHP Unused Heat Recovery</b>	<u>Engineering Units:</u> <u>Heat Measurement Type:</u>	MBtu BTU meter accumulated value converted to hourly

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**Table 2 Event Timeline**

<b>Date</b>	<b>Event</b>
9/6/2017	Data uploaded to NYSERDA website. Begin daily upload.

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## *Range Checks*

**Table 3. Range Checks**

<b>Data Point</b>	<b>Units</b>	<b>Hourly Data Calculation Method</b>	<b>Database Lower Range</b>	<b>Database Upper Range</b>	<b>Notes</b>
DG/CHP Generator Output (WG_d)	kWh/int	Sum	0	50	
DG/CHP Generator Output Demand (WG_KW_d)	kW	Max	0	200	
DG/CHP Generator Gas Use (FG_d)	cf/int	Sum	0	600	
Useful Heat Recovery (QHR_d)	MBtu/int	Avg	0	1000	
Unused Heat Recovery (QD_d)	MBtu/int	Avg	0	1000	
Ambient Temperature (TAO)	°F	Avg	-20	130	<i>WUG Airport Code - LGA</i>

Notes:

1. This table contains values from *mount\_vernon\_hs.csv*