

## 220 Madison – Database Notes

**Table 1 Database Notes**

Data Collection	Data Logger: Data Collection Interval: Collection Method: Timestamp Reference:	Aegis Data Collection Platform 15-minute Nightly FTP upload to CDH Energy servers Eastern Standard Time
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat Use:	Aegen Aegis PowerVerter PV-75 75 kW Hot water Domestic Hot Water Rejected to atmosphere by dump radiator
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Net Power: (calculated from gross and parasitic measurements) Accumulated kWh
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW Net Power: (calculated from gross and parasitic measurements) Measured kW
DG/CHP Generator Fuel Input	Engineering Units: Measurement Type:	CF Accumulated cubic feet
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu /hr Calculated from 15 minute flow and temperature data
DG/CHP Unused Heat Recovery	Engineering Units:	MBtu Accumulated MBtu from integrating BTU meter
DG/CHP Status/Runtime	Engineering Units:	0 – 1, System ON/System Off
Facility Purchased Energy	Engineering Units: Measurement Type:	kWh Accumulated kWh

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Facility Purchased Demand	Engineering Units: Measurement Type:	kW Measured kW
Other Facility Gas Use	Engineering Units:	Not collected

**Table 2 Event Timeline**

<b>Date</b>	<b>Event</b>
November 27, 2017	Data collection begins.
December 20, 2017	Added to NYSERDA website.

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### **Range Checks**

**Table 3. Range Checks**

<b>Data Point</b>	<b>Hourly Data Method</b>	<b>Units</b>	<b>Database Lower Range</b>	<b>Database Upper Range</b>	<b>Notes</b>
DG/CHP Generator Output (WG_d)	Sum	kWh/int	-10	80	
DG/CHP Generator Output Demand (WG_KW_d)	Max	kW	-10	80	
DG/CHP Generator Gas Use (FG_d)	Sum	Cfh	0	1200	
Total Facility Purchased Energy (WT_d)	Sum	kWh/int	0	400	
Total Facility Purchased Demand (WT_KW_d)	Max	kW	0	400	
Other Facility Gas Use (FT_d)	Sum	Cfh	-	-	Not Installed
Useful Heat Recovery (QHR_d)	Avg	MBtu/h	0	1000	
Unused Heat Recovery (QD_d)	Avg	MBtu/h	0	1000	
Status/Runtime of DG/CHP Generator (SG_d)	On/Off	On/Off	0	1	0 – 1, System On/System Off
Ambient Temperature (TAO)	Avg	°F	-30	120	WUG Airport Code - LGA

**Notes:**

1. This table contains values from *220\_madison.csv*

***Relational Checks***

Table 4. Relational Checks

Evaluated Point	Criteria	Result