**Table 1 Database Notes** 

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Obvius AcquiSuite A8810 1 Minute Obvius Upload Manager to CDH servers		
Site Information	Cogeneration Units: <u>Nameplate Capacity:</u> <u>Heat Recovery Medium:</u> <u>Heat Recovery Uses:</u> <u>Excess Heat:</u>	Tecogen Inverde INV-100 reciprocating generator 100 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:	kW/kWh Net Calculated = gross minus parasitics Accumulated kWh		
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW Instantaneous kW reading		
DG/CHP Generator Fuel Input	Engineering Units: Measurement type:	CF Rotary gas meter with pulse output		
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu (calculated value) one thermal loop –flowmeter and two temp measurements across all useful loads on hot water loop		
DG/CHP Unused Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu (calculated value) Flowmeter and two temperature measurements across CHP dump radiator		
DG/CHP Status/Runtime	Engineering Units: Measurement Type:	Hour When generator power greater than 30 kW		

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

### Table 2 Event Timeline

Date	Event
December 5, 2017	Logging begins
December 14, 2017	Data posted to NYSERDA DG/CHP website

## Range Checks

### Table 3. Range Checks

Data Point	Units	Hourly Data Calculation Method	Database Lower Range	Database Upper Range	Notes
DG/CHP Generator Output (WG_d)	kWh/int	Sum	-10	100	Database lower range less than zero to account for parasitic loads
DG/CHP Generator Output Demand (WG_KW_d)	kW	Max	-10	100	Database lower range less than zero to account for parasitic loads
DG/CHP Generator Gas Use (FG_d)	cf/int	Sum	0	5000	
Total Facility Purchased Energy (WT_d)	kWh/int	_			Not installed
Total Facility Purchased Demand (WT_KW_d)	kW	-			Not installed
Other Facility Gas Use (FT_d)	cf/int	-			Not installed
Useful Heat Recovery (QHR_d)	MBtu/int	-	0	6000	Calculated value
Unused Heat Recovery (QD_d)	MBtu/int	-	0	6000	Calculated value
Status/Runtime of DG/CHP Generator (SG_d)	hr	-	0	1	
Ambient Temperature (TAO)	°F	Avg	-20	130	WUG Airport code LGA

Notes:

1. This table contains values from *morrisania.csv* 

### **Relational Checks**

#### Table 4. Relational Checks

Evaluated Point	Criteria	Result
FG	WG > 10 and FG $\leq 0$	DQ Level for FG set to 2
WG	$FG > 100 \text{ and } WG \le 0$	DQ Level for WG set to 2

Notes:

1. This table contains values from *relational\_checks.pro*