Remeeder House - Sheffield – 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:	One (1) Yanmar CP35D1 Cogen Units 35 kW Hot water Domestic Hot Water Rejected to atmosphere
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Net calculated: Gross minus calculated parasitic Calculated using kW measurements from 1x cogen power meters and calculated parasitic load consisting of ½ hp heat recovery loop pump.
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW Maximum power measurement, based on peak 15-minute power
DG/CHP Generator Fuel Input	Engineering Units: Measurement Type:	CF Calculated using part load curve from NYSERDA Combined Heat and Power Catalog
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu Accumulated MBtu from integrating BTU meter.
DG/CHP Unused Heat Recovery	Engineering Units:	Not Collected
DG/CHP Status/Runtime	Engineering Units:	0 – 1, System ON/System Off

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

Table 2 Event Timeline

Date	Event
May 1, 2017	Data collection begins.
June 1, 2017	Added to NYSERDA website.

Range Checks

Table 3. Range Checks

Data Point	Hourly Data Method	Units	Database Lower Range	Database Upper Range	Notes
DG/CHP Generator Output	Sum	kWh/int	-5	40	
DG/CHP Generator Output Demand	Max	kW	-5	40	
DG/CHP Generator Gas Use	Sum	Cfh	0	500	
Total Facility Purchased Energy	Sum	kWh/int	-	-	Not Installed
Total Facility Purchased Demand	Max	kW	-	-	Not Installed
Other Facility Gas Use	Sum	Cfh	-	-	Not Installed
Useful Heat Recovery	Sum	MBtu/h	0	300	
Unused Heat Recovery	Sum	MBtu/h	-	-	Not Installed
Status/Runtime of DG/CHP Generator	On/Off	On/Off	0	1	0 – 1, System On/System Off
Ambient Temperature	Avg	°F	-20	130	WUG Airport Code - RME

Notes:

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

Relational Checks

Table 4. Relational Checks

Evaluated Point	Criteria	Result