

Cooper Union - Foundation Building – Database Notes

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method: Timestamp Reference:	Intelisys System 15-minute Nightly Email CDH Energy servers Eastern Standard Time
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat Use:	One (1) Intelligen 150 Cogen Unit 150 kW Hot water Space Heating Rejected to atmosphere
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Gross 15-Minute sample data from engine controller
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:	Not Collected
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu Waiting for temperature after cogen HX (THW2) to be added.
DG/CHP Unused Heat Recovery	Engineering Units:	MBtu Waiting for temperature after cogen HX (THW2) to be added.
DG/CHP Status/Runtime	Engineering Units:	0 – 1, System ON/System Off

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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 12, 2017	Data collection resumes.
July 18, 2017	Added to NYSERDA website.

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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	0	160	
DG/CHP Generator Output Demand	Max	kW	0	160	
DG/CHP Generator Gas Use	Sum	Cfh	-	-	Not Installed
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	1500	Not YET Installed
Unused Heat Recovery	Sum	MBtu/h	0	1500	Not YET 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 - NYC

Notes:

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

Relational Checks

Table 4. Relational Checks

Evaluated Point	Criteria	Result