<u>One Lincoln Plaza Condominium – Database Notes</u>

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Obvius AcquiSuite A8812 1 – Minute Nightly Obvius Building Manager Online upload to CDH servers.
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	Three (3) Aegis PowerVerter PV-75 units 225 kW (75 kW each) Hot Water DHW, pool, and space heating Rejected to atmosphere using dump radiator
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Net generator power Calculated using kW measurements from 2x cogen power meters and 1x parasitic power meter (Veris H8035 typ)
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW Calculated from generator electrical output; max kW / int * # intervals
DG/CHP Generator Fuel Input	Engineering Units: Measurement type:	CF Pulse output from Romet RM5000 utility gas meter
Other Fuel Input	Engineering Units: Heat Measurement Type:	-
Utility Energy Import	Engineering Units: Measurement Type:	kWh Calculated as sum of two measured utility services (Veris E50) - modbus reading
Utility Energy Import Demand	Engineering Units: Measurement Type:	kW Calculated from utility energy import; max kW / int * # intervals

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DG/CHP Useful Heat	Engineering Units:	MBtu/hr
Recovery	Measurement Type:	Calculated using 1-minute flow and temperature measurements
DG/CHP Rejected Heat	Engineering Units:	MBtu/hr
Recovery	Heat Measurement Type:	Calculated using 1-minute flow and temperature data.
Generator Status	Engineering Units: Measurement Type:	Hours 0 to 1, system on / system off. Generator output must be above 30 kW to be considered on.
Ambient Temperature	Engineering Units: Measurement Type:	Deg. F Weather Underground airport code NYC.

Table 2 Event Timeline

Date	Event

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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	0	6	
DG/CHP Generator Output Demand (WG_KW_d)	kW	Max	0	360	WG_KW_d = WG_d * # Intervals
DG/CHP Generator Gas Use (FG_d)	Cfh/int	Sum	0	70	
Total Facility Purchased Energy (WT_d)	kWh/int	-	0	20	
Total Facility Purchased Demand (WT_KW_d)	kW	-	0	1200	
Other Facility Gas Use (FT_d)	cf/int	-	-	-	
Useful Heat Recovery (QHR_d)	MBtu	-	0	2500	
Unused Heat Recovery (QD_d)	MBtu	-	0	2500	
Status/Runtime of DG/CHP Generator (SG_d)	hr	-	0	1	0-1, System On/System Off
Ambient Temperature (TAO)	°F	Avg	-20	130	WUG Airport Code: NYC

Notes:

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

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Relational Checks

 Table 4. Relational Checks

Evaluated Point	Criteria	Result

Notes:

1. This table contains values from *relational_checks.pro*