Adelphi University – Database Notes

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Obvius Aquisuite A8812 1 – Minute Obvius Upload Manager to CDH servers
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	One (1) GE Jenbacher JMS612 1979 kW Hot Water District Heating Rejected to atmosphere by dump coil
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Net Generator Power Gross power and parasitic loads each measured with the Schweitzer SEL – 735 and Carlo Gavazzi WM30 96 Type AV5 respectively.
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW Calculated : accumulated kWh/int * # intervals
DG/CHP Generator Fuel Input	Engineering Units: Measurement type:	CF Accumulated cubic feet (pulse)
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu/hr Calculated from 1 minute analog flow and temperature data
DG/CHP Unused Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu/hr Calculated from 1 minute analog flow and temperature data
DG/CHP Status/Runtime	Engineering Units: Measurement Type:	Hours Calculated based on generator output

Adelphi University – Database Notes

Facility Purchased Energy	Engineering Units: Measurement Type:	- -
Facility Purchased Demand	Engineering Units: Measurement Type:	- -
Other Facility Gas Use	Engineering Units: Measurement Type:	- -

Table 2 Event Timeline

Date	**Event**
August 2, 2016	Data was sent to CDH Energy August 2, 2016
October 14, 2016	Website data begins September 10, 2016

Adelphi University – Database Notes

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	2100	
DG/CHP Generator Output Demand (WG_KW_d)	kW	Max	0	2100	*WG_KW_d = WG_d * # Intervals*
DG/CHP Generator Gas Use (FG_d)	cf/int	Sum	0	25000	
Total Facility Purchased Energy (WT_d)	kWh/int	Sum	-	-	
Total Facility Purchased Demand (WT_KW_d)	kW	Max	-	-	
Other Facility Gas Use (FT_d)	cf/int	-	-	-	
Useful Heat Recovery (QHR_d)	MBtu/hr	Avg	-500	15000	
Unused Heat Recovery (QD_d)	MBtu/hr	Avg	0	15000	
Status/Runtime of DG/CHP Generator (SG_d)	hr	Status	0	1	
Ambient Temperature (TAO)	°F	Avg	-30	120	*WUG Airport Code - LGA*

Notes:

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

Site Name – Database Notes

Relational Checks

Table 4. Relational Checks

Evaluated Point	Criteria	Result

Notes:

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