Oneida County Corrections Facility – Database Notes

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method: Timestamp Reference:	Obvius Aquisuite (CDH) 1-minute Nightly Obvius Building Manager Online upload to CDH Servers Eastern Standard Time
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat Use:	One (1) Aegen TP75-LE Cogen Unit 75 kW Hot water Domestic Hot Water, Boiler Rejected to atmosphere using dump radiator
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Net calculated: Gross minus parasitic Calculated using kW measurements from 1x cogen power meters (Veris H8035) and 1x parasitic power calculated from current going to CCP
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW Average power measurement, based on peak 1-minute power
DG/CHP Generator Fuel Input	Engineering Units: Measurement Type:	CF Pulse
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu (calculated value) Calculated using 1-minute flow and temperature measurements
DG/CHP Unused Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu Calculated using 1-minute flow and temperature measurements
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

Note: See addendum for further details

Table 2 Event Timeline

Date	**Event**
February 23, 2016	Logging begins.
February 23, 2016	CDH on site to verify flow and temperature sensor measurements. Collect instantaneous DG/CHP measurements for meter verification. Installed strap on temperature sensor and terminate gas meter wiring.

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	-1	2	Database range account for parasitic loads
DG/CHP Generator Output Demand	Max	kW	-10	100	
DG/CHP Generator Gas Use	Sum	cf/int	0	20	
Total Facility Purchased Energy	Sum	kWh/int	-	-	Not installed
Total Facility Purchased Demand	Max	kW	-	-	Not installed
Other Facility Gas Use	Sum	cf/int	-	-	Not installed
Useful Heat Recovery	Sum	MBtu/int	0	800	Calculated Value
Unused Heat Recovery	Sum	MBtu/int	0	800	Calculated Value
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 *oneida_cc.csv*

Relational Checks

Table 4. Relational Checks

Evaluated Point	Criteria	Result