4C Foods New – Database Notes

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Obvius AcquiSuite A8810 1 – Minute Obvius Upload Manager to CDH Servers
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses: Excess Heat:	One (1) Intelligen 80 and two (2) Intelligen 160 One (1) 80 kW and two (2) 160 kW Hot Water Process Heat Rejected to atmosphere by dump radiator
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Net Power Accumulated kWh
DG/CHP Generator Electrical Output Demand	Engineering Units: Measurement Type:	kW Measured kW
DG/CHP Generator Fuel Input	Engineering Units: Measurement type:	CF Accumulated cubic feet
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

4C Foods New – 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
May 19, 2017	Data collection begins
May 24, 2017	Added to NYSERDA website.

4C Foods New – 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	-10	410	
DG/CHP Generator Output Demand (WG_KW_d)	kW	Max	-10	410	
DG/CHP Generator Gas Use (FG_d)	cf/int	Sum	0	8000	
Total Facility Purchased Energy (WT_d)	kWh/int	Sum	0	1000	-
Total Facility Purchased Demand (WT_KW_d)	kW	Max	0	1000	-
Other Facility Gas Use (FT_d)	cf/int	-	-	-	
Useful Heat Recovery (QHR_d)	MBtu/hr	Avg	0	6500	
Unused Heat Recovery (QD_d)	MBtu/hr	Avg	0	6500	
Status/Runtime of DG/CHP Generator (SG_d)	hr	-	0	1	System Off/System On
Ambient Temperature (TAO)	°F	Avg	-20	130	*WUG Airport Code - JFK*

Notes:

1. This table contains values from *4cfoods.csv*

4C Foods New – Database Notes

Relational Checks

Table 4. Relational Checks

Evaluated Point	Criteria	Result

Notes:

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