North Rockland High School – Database Notes

Table 1 Database Notes

Data Collection	Data Logger: Data Collection Interval: Collection Method:	Obvius AcquiSuite A8812 15 – Minute Obvius Upload Manager to Frontier Energy Servers
Site Information	Cogeneration Units: Nameplate Capacity: Heat Recovery Medium: Heat Recovery Uses:	One (1) Aegenco PS - 75 75 kW Hot Water Domestic Hot Water (DHW) and space heating
DG/CHP Generator Electrical Output	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kWh Net Power (calculated from gross measurement and stipulated parasitic) Measured using 15 min average kWh.
DG/CHP Generator Electrical Output Demand	Engineering Units: Energy Measurement (net/gross): Measurement Type:	kW Net Power (Provided by data file) Measured using 15 min average kW.
DG/CHP Generator Fuel Input	Engineering Units: Measurement type:	CFh Provided Cubic feet per interval.
DG/CHP Useful Heat Recovery	Engineering Units: Heat Measurement Type:	MBtu/hr Calculated from 15 minute analog flow and temperature data from an Badger 380 - Btu Meter
DG/CHP Unused Heat Recovery	Engineering Units: Heat Measurement Type:	- -
Facility Purchased Energy	Engineering Units: Measurement Type:	- -

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

Table 2 Event Timeline

Date	Event
October 1, 2020	Data collection begins
October 12, 2020	Added to NYSERDA website.

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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)	kWh/int	Sum	-10	21.25	-
DG/CHP Generator Output Demand (WG_KW)	kW	Max	-10	85	-
DG/CHP Generator Gas Use (FG)	cf/int	Sum	0	2000	-
Useful Heat Recovery (QU)	MBtu/hr	Avg	0	1000	-
Unused Heat Recovery (QD)	MBtu/hr	Avg	0	1000	-
Ambient Temperature (TAO)	°F	Avg	-20	130	*WUG Airport Code - SWF*

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Relational Checks

Table 4. Relational Checks

Evaluated Point(s)	Criteria	Result
Electricity Generated	Fuel Consumed > 0 and Electricity Generated Invalid	Fuel Consumed = invalid
Fuel Consumed	Electricity Generated > 0 and Fuel Consumed Invalid	Electricity Generated = invalid