

**BEFORE THE
PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the application of the	)	
Cleveland Electric Illuminating Company	)	
and YWCA Greater Cleveland to Commit	)	Case No. 13-1171-EL-EEC
Energy Efficiency/Peak Demand	)	
Reduction Programs	)	

NOTICE OF FILING AMENDMENT TO JOINT APPLICATION

The Cleveland Electric Illuminating Company ("CEI") hereby provides notice of its filing of an amendment to the Application to Commit Energy Efficiency/Peak Demand Reduction Program ("Application") that it filed jointly with YWCA Greater Cleveland ("YWCA") on October 8, 2013. CEI and YWCA now file an amendment to the Application to provide additional attachments that were inadvertently omitted from the original Application.

Respectfully submitted,

/s/ Lindsey Sacher

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ATTORNEYS FOR CEI

HEAT RECOVERY UNIT SAVINGS SUMMARY									
	RTU-1	ERV-1	ERV-2						TOTAL
kWh:	5,180.6	3,657.8	3,334.0						12,172.4
Dollars:	\$ 414.45	292.6	266.7						\$ 973.79
75%	\$ 310.84	219.5	200.0						\$ 730.34

725240TY.bin Cleveland
 HEAT RECOVERY UNIT SAVINGS
 RTU-1

INPUTS

Minimum Fraction Outdoor Air:	55%	
Heat Recover Effectiveness:	70.0%	
Summer Set Point Temperature:	72 F	Winter Set Point 70
Set Point Enthalpy:	26.39 Btu/lba	Set Point Enthalpy: 22.72
Supply Air Temperature:	53 F	
Supply Air Enthalpy:	21.86 Btu/lba	
Supply Air Volume:	2300 cfm	
Supply Air Density:	0.075 lb/ft^3	

Rate:	\$0.08
EER	11.07
SAVIN	
Cooling kWh:	5,180.61
Dollars:	\$414.45
75%	\$310.84

StrTemp	EndTemp	T(F)	h(Btu/lba)	hrs1-24	foa	Tma(F)	hma(Btu/lba)	Q (mmBTU)
=====	=====	=====	=====	=====	=====	=====	=====	=====
105	109	107	-99	0	55%	91.2	-42.30	0.00
100	104	102	-99	0	55%	88.4	-42.30	0.00
95	99	95.7	37.1	3	55%	85.0	32.26	0.13
90	94	91.9	39	43	55%	82.9	33.30	2.15
85	89	87.5	36.5	127	55%	80.5	31.93	5.09
80	84	82	33.6	359	55%	77.5	30.34	10.27
75	79	76.7	31.2	523	55%	74.6	29.03	9.98
70	74	72.4	30.1	617	55%	72.2	28.42	9.08
65	69	68	28	754	100%	68.0	28.00	8.77
60	64	62.5	24.8	1029	100%	62.5	24.80	11.88
55	59	57.2	21.3	604	100%	57.2	21.30	6.21
50	54	51.9	18.5	631	95%	53.0	18.93	18.24
45	49	47.6	16.5	420	78%	53.0	18.69	14.74
40	44	42.8	14.7	529	65%	53.0	18.78	20.00
35	39	37.4	12.6	904	55%	53.0	18.82	36.40
30	34	32	10.5	749	55%	50.1	17.69	36.33
25	29	27.5	8.8	497	55%	47.6	16.76	27.46
20	24	23.2	7.4	370	55%	45.3	15.99	22.50
15	19	17.5	5.6	335	55%	42.1	15.00	22.76
10	14	12.2	4.1	155	55%	39.2	14.18	11.45
5	9	7.7	2.8	65	55%	36.8	13.47	5.14
0	4	2.7	1.4	22	55%	34.0	12.70	1.86
-5	-1	-1.5	0.2	21	55%	31.7	12.04	1.88

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 HEAT RECOVERY UNIT SAVINGS
 ERV-1

INPUTS

Minimum Fraction Outdoor Air:	100%	
Heat Recover Effectiveness:	70.0%	
Summer Set Point Temperature:	72 F	Winter Set Point 70
Set Point Enthalpy:	26.39 Btu/lba	Set Point Enthalpy: 22.72
Supply Air Temperature:	53 F	
Supply Air Enthalpy:	21.86 Btu/lba	
Supply Air Volume:	960 cfm	
Supply Air Density:	0.075 lb/ft^3	

Rate:	\$0.08
75% Load EER:	10
SAVIN	
Cooling kWh:	3,657.84
Dollars:	\$292.63
75%	\$219.47

StrTemp	EndTemp	T(F)	h(Btu/lba)	hrs1-24	foa	Tma(F)	hma(Btu/lba)	Q (mmBTU)
=====	=====	=====	=====	=====	=====	=====	=====	=====
105	109	107	-99	0	100%	107.0	-99.00	0.00
100	104	102	-99	0	100%	102.0	-99.00	0.00
95	99	95.7	37.1	3	100%	95.7	37.10	0.10
90	94	91.9	39	43	100%	91.9	39.00	1.64
85	89	87.5	36.5	127	100%	87.5	36.50	3.88
80	84	82	33.6	359	100%	82.0	33.60	7.82
75	79	76.7	31.2	523	100%	76.7	31.20	7.60
70	74	72.4	30.1	617	100%	72.4	30.10	6.91
65	69	68	28	754	100%	68.0	28.00	3.66
60	64	62.5	24.8	1029	100%	62.5	24.80	4.96
55	59	57.2	21.3	604	100%	57.2	21.30	2.59
50	54	51.9	18.5	631	100%	51.9	18.50	8.05
45	49	47.6	16.5	420	100%	47.6	16.50	7.90
40	44	42.8	14.7	529	100%	42.8	14.70	12.83
35	39	37.4	12.6	904	100%	37.4	12.60	27.67
30	34	32	10.5	749	100%	32.0	10.50	27.68
25	29	27.5	8.8	497	100%	27.5	8.80	20.92
20	24	23.2	7.4	370	100%	23.2	7.40	17.14
15	19	17.5	5.6	335	100%	17.5	5.60	17.34
10	14	12.2	4.1	155	100%	12.2	4.10	8.73
5	9	7.7	2.8	65	100%	7.7	2.80	3.92
0	4	2.7	1.4	22	100%	2.7	1.40	1.42
-5	-1	-1.5	0.2	21	100%	-1.5	0.20	1.43

725240TY.bin Cleveland
 HEAT RECOVERY UNIT SAVINGS
 ERV-2

INPUTS

Minimum Fraction Outdoor Air:	100%	
Heat Recover Effectiveness:	70.0%	
Summer Set Point Temperature:	72 F	Winter Set Point 70
Set Point Enthalpy:	26.39 Btu/lba	Set Point Enthalpy: 22.72
Supply Air Temperature:	53 F	
Supply Air Enthalpy:	21.86 Btu/lba	
Supply Air Volume:	875 cfm	
Supply Air Density:	0.075 lb/ft^3	

Rate:	\$0.08
75% Load EER:	10
SAVIN	
Cooling kWh:	3,333.97
Dollars:	\$266.72
75%	\$200.04

StrTemp	EndTemp	T(F)	h(Btu/lba)	hrs1-24	foa	Tma(F)	hma(Btu/lba)	Q (mmBTU)
=====	=====	=====	=====	=====	=====	=====	=====	=====
105	109	107	-99	0	100%	107.0	-99.00	0.00
100	104	102	-99	0	100%	102.0	-99.00	0.00
95	99	95.7	37.1	3	100%	95.7	37.10	0.09
90	94	91.9	39	43	100%	91.9	39.00	1.49
85	89	87.5	36.5	127	100%	87.5	36.50	3.54
80	84	82	33.6	359	100%	82.0	33.60	7.13
75	79	76.7	31.2	523	100%	76.7	31.20	6.93
70	74	72.4	30.1	617	100%	72.4	30.10	6.30
65	69	68	28	754	100%	68.0	28.00	3.34
60	64	62.5	24.8	1029	100%	62.5	24.80	4.52
55	59	57.2	21.3	604	100%	57.2	21.30	2.36
50	54	51.9	18.5	631	100%	51.9	18.50	7.34
45	49	47.6	16.5	420	100%	47.6	16.50	7.20
40	44	42.8	14.7	529	100%	42.8	14.70	11.69
35	39	37.4	12.6	904	100%	37.4	12.60	25.22
30	34	32	10.5	749	100%	32.0	10.50	25.23
25	29	27.5	8.8	497	100%	27.5	8.80	19.07
20	24	23.2	7.4	370	100%	23.2	7.40	15.62
15	19	17.5	5.6	335	100%	17.5	5.60	15.81
10	14	12.2	4.1	155	100%	12.2	4.10	7.95
5	9	7.7	2.8	65	100%	7.7	2.80	3.57
0	4	2.7	1.4	22	100%	2.7	1.40	1.29
-5	-1	-1.5	0.2	21	100%	-1.5	0.20	1.30

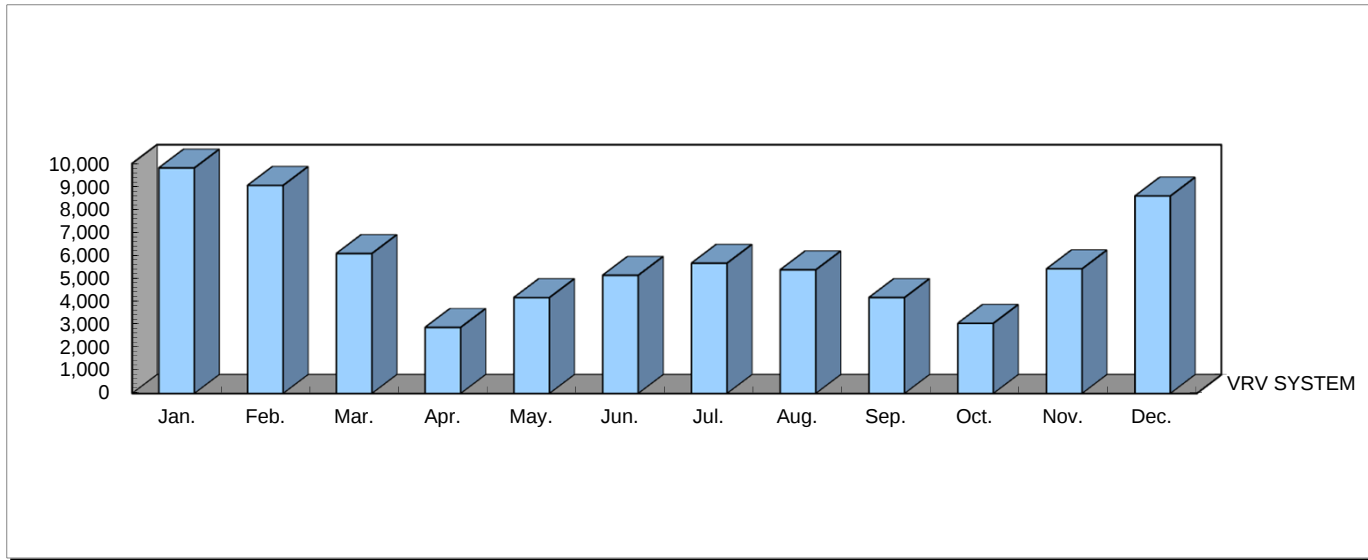


Attachment K

4/17/2013
Project Name:VRV Energy Analysis

VRV SYSTEM

		Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Sum.
LOAD [MBH]		82,010	75,148	50,033	49,211	81,910	99,146	109,889	105,326	81,802	51,661	43,367	70,072	899,576
	Outdoor Unit	8,681	8,033	4,961	1,774	3,033	4,038	4,528	4,238	3,071	1,914	4,330	7,461	56,062
	Indoor Unit(Fan)	1,119	1,011	1,119	1,096	1,133	1,096	1,133	1,133	1,096	1,133	1,083	1,119	13,271
	Ventilation fan	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	9,800	9,043	6,080	2,870	4,165	5,135	5,660	5,371	4,168	3,047	5,413	8,580	69,333



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Case No(s). 13-1171-EL-EEC

Summary: Notice of Filing Amendment to Joint Application of The Cleveland Electric Illuminating Company and YWCA Greater Cleveland electronically filed by Ms. Jennifer M. Sybyl on behalf of The Cleveland Electric Illuminating Company and YWCA Greater Cleveland