

APPENDIX – DOE2.1E SUMMARY OUTPUT REPORTS BEPS, BEPU, ES-D, SV-A, LV-D, LV-I, PS-C, PS-E, PS-D, PV-A (Note: The model has two plants, therefore there are two outputs for plant reports)

DESIGN WITH COGENERATION

1 DOE 2.1E
Alnpl: 1200 kW:250 TR

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:07:01 2015PDL RUN 1

REPORT- BEPS

BUILDING ENERGY PERFORMANCE SUMMARY

WEATHER FILE- NEW YORK CENTRAL NY

ENERGY TYPE: UNITS: MBTU	ELECTRICITY	NATURAL-GAS	FUEL-OIL	RECOVERED
CATEGORY OF USE -----				
AREA LIGHTS	20048.4	28758.5	0.0	0.0
MISC EQUIPMT	21307.4	34220.4	0.0	0.0
SPACE HEAT	0.0	0.0	38248.5	12522.5
SPACE COOL	9929.2	9083.0	0.0	3081.1
HEAT REJECT	415.6	613.1	0.0	0.0
PUMPS & MISC	6194.3	6308.4	0.0	0.0
VENT FANS	12494.1	13339.1	0.0	0.0
DOMHOT WATER	1856.5	3829.3	0.0	0.0
EXT LIGHTS	61.3	196.2	0.0	0.0
EXT MISC	2046.8	2982.4	0.0	0.0
COGEN SURPLS	0.2	-0.7	0.0	0.0
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TOTAL	74353.8	99329.7	38248.5	15603.6

TOTAL SITE ENERGY	211931.98 MBTU	99.4 KBTU/SQFT-YR GROSS-AREA	99.4 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	360661.88 MBTU	169.2 KBTU/SQFT-YR GROSS-AREA	169.2 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.6
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

1 DOE 2.1E
Alnpl: 1200 kW:250 TR

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:07:01 2015PDL RUN 1

REPORT- BEPU BUILDING ENERGY PERFORMANCE SUMMARY (UTILITY UNITS)

WEATHER FILE- NEW YORK CENTRAL NY

ENERGY TYPE: SITE UNITS:	ELECTRICITY KWH	NATURAL-GAS THERM	FUEL-OIL MMBTU	RECOVERED MBTU
CATEGORY OF USE -----				
AREA LIGHTS	5874190.	287585.	0.	0.
MISC EQUIPMT	6243069.	342204.	0.	0.
SPACE HEAT	0.	0.	40690.	12523.
SPACE COOL	2909260.	90830.	0.	3081.
HEAT REJECT	121756.	6131.	0.	0.
PUMPS & MISC	1814927.	63084.	0.	0.
VENT FANS	3660759.	133391.	0.	0.
DOMHOT WATER	543951.	38293.	0.	0.
EXT LIGHTS	17958.	1962.	0.	0.
EXT MISC	599724.	29824.	0.	0.
COGEN SURPLS	67.	-7.	0.	0.
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TOTAL	21785658.	993296.	40690.	15604.

TOTAL ELECTRICITY	21785658. KWH	10.221 KWH	/SQFT-YR GROSS-AREA	10.221 KWH	/SQFT-YR NET-AREA
TOTAL NATURAL-GAS	993296. THERM	0.466 THERM	/SQFT-YR GROSS-AREA	0.466 THERM	/SQFT-YR NET-AREA
TOTAL FUEL-OIL	40690. MMBTU	0.019 MMBTU	/SQFT-YR GROSS-AREA	0.019 MMBTU	/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.6
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

REPORT- ES-D

ENERGY COST SUMMARY

UTILITY-RATE	RESOURCE	METERS	METERED ENERGY UNITS/YR	TOTAL CHARGE (\$)	VIRTUAL RATE (\$/UNIT)	RATE USED ALL YEAR?
0ELEC-SALE	ELEC-NET-SALE	1 2 3 4 5	0. KWH	0.	0.0000	YES
0SC9-ELEC-TARIFF	ELECTRICITY	1 2 3 4 5	21785676. KWH	4949758.	0.2272	YES
0DES-STM-RATE	FUEL-OIL	1 2	40690. MMBTU	901750.	22.1615	YES
0RDR-H-GAS-TARIFF	NATURAL-GAS	5	993298. THERM	832733.	0.8384	YES
0				=====		
0				6684241.		

ENERGY COST/GROSS BLDG AREA: 3.14

ENERGY COST/NET BLDG AREA: 3.14

1 DOE 2.1E
Alnpl: 1200 kW:250 TR

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:07:01 2015PDL RUN 2

REPORT- BEPS

BUILDING ENERGY PERFORMANCE SUMMARY

WEATHER FILE- NEW YORK CENTRAL NY

ENERGY TYPE:	ELECTRICITY	FUEL-OIL
UNITS: MBTU		
CATEGORY OF USE		

AREA LIGHTS	743.6	0.0
MISC EQUIPMT	221.3	0.0
SPACE HEAT	0.0	674.3
SPACE COOL	861.6	0.0
PUMPS & MISC	8.7	0.0
VENT FANS	206.7	0.0
DOMHOT WATER	0.0	254.0
	-----	-----
TOTAL	2041.8	928.4

TOTAL SITE ENERGY	2970.17 MBTU	1.4 KBTU/SQFT-YR GROSS-AREA	1.4 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	7054.43 MBTU	3.3 KBTU/SQFT-YR GROSS-AREA	3.3 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

1 DOE 2.1E
Alnpl: 1200 kW:250 TR

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:07:01 2015PDL RUN 2

REPORT- BEPU BUILDING ENERGY PERFORMANCE SUMMARY (UTILITY UNITS)

WEATHER FILE- NEW YORK CENTRAL NY

ENERGY TYPE: SITE UNITS:	ELECTRICITY KWH	FUEL-OIL MMBTU
CATEGORY OF USE -----		
AREA LIGHTS	217869.	0.
MISC EQUIPMT	64847.	0.
SPACE HEAT	0.	717.
SPACE COOL	252434.	0.
PUMPS & MISC	2550.	0.
VENT FANS	60554.	0.
DOMHOT WATER	0.	270.
	-----	-----
TOTAL	598254.	988.

TOTAL ELECTRICITY	598254. KWH	0.281 KWH	/SQFT-YR GROSS-AREA	0.281 KWH	/SQFT-YR NET-AREA
TOTAL FUEL-OIL	988. MMBTU	0.000 MMBTU	/SQFT-YR GROSS-AREA	0.000 MMBTU	/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

REPORT- ES-D

ENERGY COST SUMMARY

UTILITY-RATE	RESOURCE	METERS	METERED ENERGY UNITS/YR	TOTAL CHARGE (\$)	VIRTUAL RATE (\$/UNIT)	RATE USED ALL YEAR?
0ELEC-SALE	ELEC-NET-SALE	1 2 3 4 5	0. KWH	0.	0.0000	YES
0SC9-ELEC-TARIFF	ELECTRICITY	1 2 3 4 5	598268. KWH	139580.	0.2333	YES
0DES-STM-RATE	FUEL-OIL	1 2	988. MMBTU	21068.	21.3314	YES
0RDR-H-GAS-TARIFF	NATURAL-GAS	5	0. THERM	5501.	0.0000	YES
0				=====		
0				166148.		

ENERGY COST/GROSS BLDG AREA: 0.08

ENERGY COST/NET BLDG AREA: 0.08

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
LOBBY-SYS	VAVS		1.000	15781.0		290.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
62730.	42.477	2.1	62730.	18.531	0.9	0.051	3260.596	0.584	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
G-LOBBY-E		26808.	0.	0.000	0.500	845.	0.00	0.00	752.78	-1592.42	-1100.22	1.0
G-LOBBY-S		18556.	0.	0.000	0.500	962.	0.00	0.00	521.05	-1102.22	-761.53	1.0
G-ELEV-LOBBY		4992.	0.	0.000	0.500	157.	0.00	0.00	140.19	-296.55	-204.89	1.0
G-LOBBY-N		12373.	0.	0.000	0.500	1226.	0.00	0.00	347.44	-734.96	-507.79	1.0

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
BOH-SYS	PVAVS		1.000	33301.7		243.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
35955.	27.333	2.4	35955.	10.128	0.9	0.072	1692.748	0.627	0.000	0.20	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B1-BOH		2253.	0.	0.000	0.350	322.	0.00	0.00	63.25	-148.40	-92.45	1.0
B1-CORR		904.	0.	0.000	0.350	54.	0.00	0.00	25.40	-59.59	-37.12	1.0
B-CORR-1		3154.	0.	0.000	0.350	189.	0.00	0.00	88.56	-207.77	-129.43	1.0
B-LOCKERS		1199.	0.	0.000	0.350	171.	0.00	0.00	33.66	-78.98	-49.20	1.0

NAME		TYPE		MULTIPLIER		(SQFT)		PEOPLE					
6-DOAS-SYS		HVSYS		1.000		4500.0		0.					
SUPPLY FAN (CFM)		ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
4500.		3.510	2.4	0.	0.000	0.0	1.000	0.000	0.000	-518.402	0.00	0.37	
ZONE NAME			SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
6-DOAS-ZONE			4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	1.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1													
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL													
REPORT- SV-A SYSTEM DESIGN PARAMETERS 6-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY													

SYSTEM NAME		SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE					
6-FLR-SYS		PVAVS		1.000		19992.3		143.					
SUPPLY FAN (CFM)		ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
17654.		17.820	3.1	0.	0.000	0.0	0.255	1061.632	0.598	0.000	0.20	0.20	
ZONE NAME			SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
6-OFC-CORE			4877.	0.	0.000	0.350	1244.	0.00	0.00	136.96	-321.32	-200.17	1.0
6-OFC-W			2081.	0.	0.000	0.350	531.	0.00	0.00	58.42	-137.07	-85.39	1.0
6-OFC-S			3275.	0.	0.000	0.350	835.	0.00	0.00	91.97	-215.79	-134.42	1.0
6-OFC-E			2277.	0.	0.000	0.350	581.	0.00	0.00	63.93	-149.99	-93.44	1.0
6-OFC-N			2713.	0.	0.000	0.350	692.	0.00	0.00	76.17	-178.71	-111.33	1.0
6-CORR			505.	0.	0.000	0.350	129.	0.00	0.00	14.17	-33.25	-20.71	1.0
6-RESTRMS			871.	0.	0.000	0.350	222.	0.00	0.00	24.46	-57.40	-35.76	1.0
6-ELEV-LOBBY			1055.	0.	0.000	0.350	269.	0.00	0.00	29.63	-69.52	-43.31	1.0
6-PLENUM			0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1													
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL													
REPORT- SV-A SYSTEM DESIGN PARAMETERS 7-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY													

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
7-DOAS-SYS	HVSYS		1.000	54000.0		0.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
54000.	42.124	2.4	0.	0.000	0.0	1.000	0.000	0.000	-6220.818	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
7-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	12.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 7-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
7-FLR-SYS	PVAVS		1.000	299908.0		2142.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
256404.	258.811	3.1	0.	0.000	0.0	0.211	14795.139	0.597	0.000	0.20	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
7-OFC-CORE		8377.	0.	0.000	0.350	1768.	0.00	0.00	235.24	-551.90	-343.81	12.0
7-OFC-W		2081.	0.	0.000	0.350	439.	0.00	0.00	58.42	-137.07	-85.39	12.0
7-OFC-S		3422.	0.	0.000	0.350	722.	0.00	0.00	96.08	-225.42	-140.42	12.0
7-OFC-E		2343.	0.	0.000	0.350	494.	0.00	0.00	65.80	-154.38	-96.17	12.0
7-OFC-N		2713.	0.	0.000	0.350	572.	0.00	0.00	76.17	-178.71	-111.33	12.0
7-CORR		505.	0.	0.000	0.350	107.	0.00	0.00	14.17	-33.25	-20.71	12.0
7-RESTRMS		871.	0.	0.000	0.350	184.	0.00	0.00	24.46	-57.40	-35.76	12.0
7-ELEV-LOBBY		1055.	0.	0.000	0.350	223.	0.00	0.00	29.63	-69.52	-43.31	12.0
7-PLENUM		0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	12.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 19-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

19-DOAS-SYS													
SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE							
19-DOAS-SYS	HVSYS		1.000	9000.0		0.							
	SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
	9000.	7.021	2.4	0.	0.000	0.0	1.000	0.000	0.000	-1036.803	0.00	0.37	
	ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
19-DOAS-ZONE			4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	2.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1													
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL													
REPORT- SV-A	SYSTEM DESIGN PARAMETERS					19-FLR-SYS			WEATHER FILE- NEW YORK CENTRAL NY				
SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE							
19-FLR-SYS	PVAVS		1.000	49985.5		357.							
	SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
	44001.	44.415	3.1	0.	0.000	0.0	0.205	2523.036	0.597	0.000	0.20	0.20	
	ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
19-OFC-CORE			8377.	0.	0.000	0.350	1717.	0.00	0.00	235.24	-551.90	-343.81	2.0
19-OFC-W			2678.	0.	0.000	0.350	549.	0.00	0.00	75.21	-176.44	-109.92	2.0
19-OFC-S			3415.	0.	0.000	0.350	700.	0.00	0.00	95.88	-224.95	-140.13	2.0
19-OFC-E			2386.	0.	0.000	0.350	489.	0.00	0.00	67.00	-157.20	-97.93	2.0
19-OFC-N			2713.	0.	0.000	0.350	556.	0.00	0.00	76.17	-178.71	-111.33	2.0
19-CORR			504.	0.	0.000	0.350	103.	0.00	0.00	14.16	-33.23	-20.70	2.0
19-RESTRMS			871.	0.	0.000	0.350	179.	0.00	0.00	24.46	-57.40	-35.76	2.0
19-ELEV-LOBBY			1056.	0.	0.000	0.350	216.	0.00	0.00	29.65	-69.57	-43.34	2.0
19-PLENUM			0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1													
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL													

REPORT- SV-A SYSTEM DESIGN PARAMETERS 21-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME		SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE						
21-DOAS-SYS		HVSYS		1.000		40500.0		0.						
SUPPLY FAN (CFM)		ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)		ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
40500.		31.593	2.4	0.		0.000	0.0	1.000	0.000	0.000	-4665.614	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)		FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
21-DOAS-ZONE		4500.		0.		0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	9.0

1	DOE	2.1E	MANHATTAN WEST	DOE-2.1E-121	Thu Apr 23 10:07:01 2015	SDL RUN	1
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Alnp1: 1200 kW:250 TR

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1

REPORT- SV-A SYSTEM DESIGN PARAMETERS

21-FLR-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
21-FLR-SYS	PVAVS		1.000	223754.0		1598.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
195236.	197.070	3.1	0.	0.000	0.0	0.207	11264.032	0.597	0.000	0.20	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
21-OFC-CORE		8378.	0.	0.000	0.350	1743.	0.00	0.00	235.24	-551.91	-343.81	9.0
21-OFC-W		2622.	0.	0.000	0.350	545.	0.00	0.00	73.62	-172.73	-107.60	9.0
21-OFC-E		2316.	0.	0.000	0.350	482.	0.00	0.00	65.04	-152.59	-95.06	9.0
21-OFC-N		2708.	0.	0.000	0.350	563.	0.00	0.00	76.05	-178.42	-111.14	9.0
21-CORR		505.	0.	0.000	0.350	105.	0.00	0.00	14.17	-33.25	-20.71	9.0
21-RESTRMS		775.	0.	0.000	0.350	161.	0.00	0.00	21.76	-51.05	-31.80	9.0
21-ELEV-LOBBY		997.	0.	0.000	0.350	207.	0.00	0.00	28.01	-65.71	-40.93	9.0
21-OFC-S		3392.	0.	0.000	0.350	706.	0.00	0.00	95.25	-223.47	-139.21	9.0
21-PLENUM		0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.0

1 DOE 2.1E

MANHATTAN WEST

DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1

Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 30-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
30-DOAS-SYS	HVSYS		1.000	4500.0		0.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
4500.	3.510	2.4	0.	0.000	0.0	1.000	0.000	0.000	-518.402	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
30-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	1.0

1	DOE	2.1E	MANHATTAN WEST	DOE-2.1E-121	Thu Apr 23 10:07:01 2015	SDL RUN	1
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Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 30-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE							
30-FLR-SYS	PVAVS		1.000	23339.7		167.							
	SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
	20090.	20.278	3.1	0.	0.000	0.0	0.224	1178.581	0.597	0.000	0.20	0.20	
	ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
30-RESTRMS			830.	0.	0.000	0.350	186.	0.00	0.00	23.31	-54.68	-34.07	1.0
30-OFC-N			2324.	0.	0.000	0.350	521.	0.00	0.00	65.26	-153.12	-95.39	1.0
30-OFC-CORE			7644.	0.	0.000	0.350	1712.	0.00	0.00	214.65	-503.60	-313.71	1.0
30-OFC-W			2634.	0.	0.000	0.350	590.	0.00	0.00	73.96	-173.53	-108.10	1.0
30-OFC-E			2336.	0.	0.000	0.350	523.	0.00	0.00	65.60	-153.91	-95.88	1.0
30-CORR			504.	0.	0.000	0.350	113.	0.00	0.00	14.16	-33.23	-20.70	1.0
30-ELEV-LOBBY			566.	0.	0.000	0.350	127.	0.00	0.00	15.90	-37.31	-23.24	1.0
30-OFC-S			3250.	0.	0.000	0.350	728.	0.00	0.00	91.27	-214.13	-133.40	1.0
30-PLENUM			0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1

Alnpl: 1200 kW:250 TR
REPORT- SV-A SYSTEM DESIGN PARAMETERS

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
31-DOAS-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
31-DOAS-SYS	HVSYS	1.000	9000.0	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
9000.	7.021	2.4	0.	0.000	0.0	1.000	0.000	0.000	-1036.803	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
31-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	2.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1

Alnpl: 1200 kW:250 TR
REPORT- SV-A SYSTEM DESIGN PARAMETERS

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
31-FLR-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
31-FLR-SYS	PVAVS	1.000	46495.2	332.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
40780.	41.163	3.1	0.	0.000	0.0	0.221	2367.923	0.597	0.000	0.20	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
31-RESTRMS		830.	0.	0.000	0.350	183.	0.00	0.00	23.31	-54.69	-34.07	2.0
31-OFC-N		2598.	0.	0.000	0.350	574.	0.00	0.00	72.94	-171.13	-106.61	2.0
31-OFC-CORE		7644.	0.	0.000	0.350	1689.	0.00	0.00	214.65	-503.61	-313.72	2.0
31-OFC-W		2637.	0.	0.000	0.350	583.	0.00	0.00	74.06	-173.75	-108.24	2.0
31-OFC-E		2331.	0.	0.000	0.350	515.	0.00	0.00	65.46	-153.58	-95.67	2.0
31-CORR		532.	0.	0.000	0.350	118.	0.00	0.00	14.93	-35.04	-21.83	2.0
31-ELEV-LOBBY		566.	0.	0.000	0.350	125.	0.00	0.00	15.90	-37.31	-23.24	2.0
31-OFC-S		3251.	0.	0.000	0.350	719.	0.00	0.00	91.29	-214.19	-133.43	2.0
31-PLENUM		0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 33-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
33-DOAS-SYS	HVSYS	1.000	40500.0	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
40500.	31.593	2.4	0.	0.000	0.0	1.000	0.000	0.000	-4665.614	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
33-DOAS-ZONE	4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 33-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
33-FLR-SYS	PVAVS	1.000	214284.9	1531.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
187503.	189.264	3.1	0.	0.000	0.0	0.216	10787.981	0.598	0.000	0.20	0.20
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
33-RESTRMS	801.	0.	0.000	0.350	173.	0.00	0.00	22.49	-52.76	-32.87	9.0
33-OFC-N	2561.	0.	0.000	0.350	553.	0.00	0.00	71.91	-168.72	-105.11	9.0
33-OFC-CORE	8226.	0.	0.000	0.350	1777.	0.00	0.00	230.98	-541.91	-337.58	9.0
33-OFC-W	2640.	0.	0.000	0.350	570.	0.00	0.00	74.14	-173.94	-108.35	9.0
33-OFC-E	2304.	0.	0.000	0.350	498.	0.00	0.00	64.70	-151.80	-94.56	9.0
33-CORR	532.	0.	0.000	0.350	115.	0.00	0.00	14.95	-35.08	-21.85	9.0
33-ELEV-LOBBY	566.	0.	0.000	0.350	122.	0.00	0.00	15.90	-37.31	-23.24	9.0
33-OFC-S	3203.	0.	0.000	0.350	692.	0.00	0.00	89.94	-211.00	-131.45	9.0

33-PLENUM 0. 0. 0.000 0.000 0. 0.00 0.00 0.00 0.00 0.00 0.00 1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 42-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
42-DOAS-SYS	HVSYS	1.000	4500.0	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
4500.	3.510	2.4	0.	0.000	0.0	1.000	0.000	0.000	-518.402	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
42-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 42-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
42-FLR-SYS	PVAVS	1.000	22455.2	160.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
19579.	19.763	3.1	0.	0.000	0.0	0.230	1155.787	0.597	0.000	0.20	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
42-OFC-E		2382.	0.	0.000	0.350	548.	0.00	0.00	66.89	-156.93	-97.76	1.0
42-RESTRMS		801.	0.	0.000	0.350	184.	0.00	0.00	22.49	-52.76	-32.87	1.0
42-OFC-CORE		7381.	0.	0.000	0.350	1698.	0.00	0.00	207.26	-486.26	-302.91	1.0
42-OFC-W		2644.	0.	0.000	0.350	608.	0.00	0.00	74.25	-174.21	-108.53	1.0
42-CORR		533.	0.	0.000	0.350	123.	0.00	0.00	14.96	-35.10	-21.87	1.0
42-ELEV-LOBBY		334.	0.	0.000	0.350	77.	0.00	0.00	9.39	-22.03	-13.72	1.0
42-OFC-N		2438.	0.	0.000	0.350	561.	0.00	0.00	68.46	-160.62	-100.06	1.0
42-OFC-S		3065.	0.	0.000	0.350	705.	0.00	0.00	86.07	-201.93	-125.79	1.0

42-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	0.00	1.0
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1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 43-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
43-DOAS-SYS	HVSYS	1.000	40500.0	0.								

SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
40500.	31.593	2.4	0.	0.000	0.0	1.000	0.000	0.000	-4665.614	0.00	0.37	

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
43-DOAS-ZONE	4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 43-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
43-FLR-SYS	PVAVS	1.000	204259.6	1459.								

SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
181499.	183.203	3.1	0.	0.000	0.0	0.223	10651.702	0.597	0.000	0.20	0.20	

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
43-OFC-E	2341.	0.	0.000	0.350	522.	0.00	0.00	65.73	-154.22	-96.07	9.0
43-RESTRMS	942.	0.	0.000	0.350	210.	0.00	0.00	26.46	-62.07	-38.67	9.0
43-OFC-CORE	7381.	0.	0.000	0.350	1646.	0.00	0.00	207.26	-486.26	-302.91	9.0
43-OFC-W	2646.	0.	0.000	0.350	590.	0.00	0.00	74.30	-174.32	-108.60	9.0
43-CORR	561.	0.	0.000	0.350	125.	0.00	0.00	15.75	-36.95	-23.02	9.0
43-ELEV-LOBBY	666.	0.	0.000	0.350	149.	0.00	0.00	18.71	-43.90	-27.34	9.0
43-OFC-N	2566.	0.	0.000	0.350	572.	0.00	0.00	72.07	-169.08	-105.33	9.0

43-OFC-S	3063.	0.	0.000	0.350	683.	0.00	0.00	86.00	-201.78	-125.70	9.0
43-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 52-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
52-DOAS-SYS	HVSYS	1.000	4500.0	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
4500.	3.510	2.4	0.	0.000	0.0	1.000	0.000	0.000	-518.402	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION RATE (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
52-DOAS-ZONE	4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 52-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
52-FLR-SYS	PVAVS		1.000	21759.8		155.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
19427.	19.609	3.1	0.	0.000	0.0	0.232	1147.072	0.598	0.000	0.20	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
52-RESTRMS		1080.	0.	0.000	0.350	250.	0.00	0.00	30.31	-71.12	-44.30	1.0
52-OFC-E		2309.	0.	0.000	0.350	536.	0.00	0.00	64.83	-152.11	-94.76	1.0
52-OFC-CORE		6863.	0.	0.000	0.350	1592.	0.00	0.00	192.70	-452.11	-281.64	1.0
52-OFC-W		2648.	0.	0.000	0.350	614.	0.00	0.00	74.35	-174.43	-108.66	1.0
52-CORR		505.	0.	0.000	0.350	117.	0.00	0.00	14.17	-33.25	-20.71	1.0
52-ELEV-LOBBY		666.	0.	0.000	0.350	154.	0.00	0.00	18.69	-43.86	-27.32	1.0
52-OFC-N		2435.	0.	0.000	0.350	565.	0.00	0.00	68.39	-160.45	-99.95	1.0

52-OFC-S	2922.	0.	0.000	0.350	678.	0.00	0.00	82.05	-192.50	-119.92	1.0
52-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0

1 DOE 2.1E
Alnp1: 1200 kw:250 TR
REPORT- SV-A

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
53-DOAS-SYS

DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
53-DOAS-SYS	HVSYS	1.000	9000.0	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
9000.	7.021	2.4	0.	0.000	0.0	1.000	0.000	0.000	-1036.803	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
53-DOAS-ZONE	4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	2.0

1 DOE 2.1E
Alnp1: 1200 kw:250 TR
REPORT- SV-A

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
53-FLR-SYS

DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
53-FLR-SYS	PVAVS	1.000	44101.8	315.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
40136.	40.513	3.1	0.	0.000	0.0	0.224	2354.192	0.597	0.000	0.20	0.20
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
53-RESTRMS	1015.	0.	0.000	0.350	227.	0.00	0.00	28.50	-66.88	-41.66	2.0
53-OFC-E	2272.	0.	0.000	0.350	509.	0.00	0.00	63.79	-149.66	-93.23	2.0
53-OFC-CORE	7148.	0.	0.000	0.350	1601.	0.00	0.00	200.73	-470.94	-293.37	2.0
53-OFC-W	2648.	0.	0.000	0.350	593.	0.00	0.00	74.35	-174.45	-108.67	2.0
53-CORR	693.	0.	0.000	0.350	155.	0.00	0.00	19.47	-45.69	-28.46	2.0
53-ELEV-LOBBY	699.	0.	0.000	0.350	157.	0.00	0.00	19.63	-46.05	-28.69	2.0

53-OFC-N	2552.	0.	0.000	0.350	572.	0.00	0.00	71.66	-168.13	-104.73	2.0
53-OFC-S	3040.	0.	0.000	0.350	681.	0.00	0.00	85.37	-200.30	-124.78	2.0
53-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 55-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
55-DOAS-SYS	HVSYS		1.000	31500.0		0.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
31500.	24.572	2.4	0.	0.000	0.0	1.000	0.000	0.000	-3628.811	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
55-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	7.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 55-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
55-FLR-SYS	PVAVS		1.000	158761.2		1134.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
143294.	144.640	3.1	0.	0.000	0.0	0.220	8385.469	0.597	0.000	0.20	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
55-RESTRMS		1010.	0.	0.000	0.350	222.	0.00	0.00	28.36	-66.54	-41.45	7.0
55-OFC-E		2547.	0.	0.000	0.350	560.	0.00	0.00	71.51	-167.77	-104.51	7.0
55-OFC-CORE		7386.	0.	0.000	0.350	1625.	0.00	0.00	207.40	-486.60	-303.13	7.0
55-OFC-W		2649.	0.	0.000	0.350	583.	0.00	0.00	74.39	-174.53	-108.72	7.0
55-CORR		694.	0.	0.000	0.350	153.	0.00	0.00	19.47	-45.69	-28.46	7.0
55-ELEV-LOBBY		699.	0.	0.000	0.350	154.	0.00	0.00	19.63	-46.06	-28.69	7.0

55-OFC-N	2501.	0.	0.000	0.350	550.	0.00	0.00	70.24	-164.79	-102.66	7.0
55-OFC-S	2984.	0.	0.000	0.350	657.	0.00	0.00	83.80	-196.61	-122.48	7.0
55-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	7.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 62-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
62-DOAS-SYS	HVSYS	1.000	4500.0	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
4500.	3.510	2.4	0.	0.000	0.0	1.000	0.000	0.000	-518.402	0.00	0.37	
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
62-DOAS-ZONE	4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	1.0	

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 62-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
62-FLR-SYS	PVAVS	1.000	21758.0	155.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
19665.	19.849	3.1	0.	0.000	0.0	0.229	1160.111	0.598	0.000	0.20	0.20	
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
62-RESTRMS	1010.	0.	0.000	0.350	231.	0.00	0.00	28.36	-66.54	-41.45	1.0	
62-OFC-E	2205.	0.	0.000	0.350	505.	0.00	0.00	61.92	-145.27	-90.49	1.0	
62-OFC-CORE	7386.	0.	0.000	0.350	1691.	0.00	0.00	207.40	-486.60	-303.13	1.0	
62-OFC-W	2650.	0.	0.000	0.350	607.	0.00	0.00	74.41	-174.59	-108.76	1.0	
62-CORR	694.	0.	0.000	0.350	159.	0.00	0.00	19.47	-45.69	-28.46	1.0	

62-ELEV-LOBBY	344.	0.	0.000	0.350	79.	0.00	0.00	9.67	-22.69	-14.13	1.0
62-OFC-N	2449.	0.	0.000	0.350	561.	0.00	0.00	68.77	-161.33	-100.50	1.0
62-OFC-S	2927.	0.	0.000	0.350	670.	0.00	0.00	82.18	-192.81	-120.11	1.0
62-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 63-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
63-DOAS-SYS	HVSYS		1.000	22500.0		0.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
22500.	17.551	2.4	0.	0.000	0.0	1.000	0.000	0.000	-2592.008	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
63-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	5.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 63-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
63-FLR-SYS	PVAVS		1.000	111174.0		794.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
99808.	100.745	3.1	0.	0.000	0.0	0.225	5870.813	0.597	0.000	0.20	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
63-RESTRMS		1010.	0.	0.000	0.350	227.	0.00	0.00	28.36	-66.54	-41.45	5.0
63-OFC-E		2125.	0.	0.000	0.350	478.	0.00	0.00	59.67	-140.00	-87.21	5.0
63-OFC-CORE		7535.	0.	0.000	0.350	1695.	0.00	0.00	211.59	-496.41	-309.24	5.0
63-OFC-W		2651.	0.	0.000	0.350	596.	0.00	0.00	74.43	-174.63	-108.79	5.0
63-CORR		694.	0.	0.000	0.350	156.	0.00	0.00	19.47	-45.69	-28.46	5.0

63-ELEV-LOBBY	698.	0.	0.000	0.350	157.	0.00	0.00	19.61	-46.00	-28.66	5.0
63-OFC-N	2391.	0.	0.000	0.350	538.	0.00	0.00	67.15	-157.53	-98.14	5.0
63-OFC-S	2858.	0.	0.000	0.350	643.	0.00	0.00	80.24	-188.26	-117.27	5.0
63-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 69-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
69-FLR-SYS	PVAVS	1.000	8143.0	58.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
10116.	10.211	3.1	0.	0.000	0.0	0.067	462.080	0.635	0.000	0.20	0.20
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
68-CORR	3919.	0.	0.000	0.350	157.	0.00	0.00	110.05	-232.80	-160.84	1.0
69-CORR	2388.	0.	0.000	0.350	143.	0.00	0.00	67.07	-141.87	-98.02	1.0
69-OFC	165.	0.	0.000	0.350	26.	0.00	0.00	4.64	-9.82	-6.78	1.0
69-LOCKERS	986.	0.	0.000	0.350	141.	0.00	0.00	27.70	-58.59	-40.48	1.0
69-WORKSHOP	1846.	0.	0.000	0.350	166.	0.00	0.00	51.83	-109.64	-75.75	1.0
RF-CORR	811.	0.	0.000	0.350	49.	0.00	0.00	22.77	-48.17	-33.28	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS EMR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
EMR-SYS	TPFC	1.000	6814.1	1.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
9859.	0.001	2.3	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	SENSIBLE	EXTRACTION RATE	HEATING CAPACITY	ADDITION RATE	

NAME	(CFM)	(CFM)	(KW)	RATIO	(CFM)	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULTIPLIER
19-EMR	770.	0.	0.578	1.000	15.	27.99	0.67	17.46	-41.17	-42.18	2.0
30-EMR	1280.	0.	0.961	1.000	26.	46.50	0.67	29.03	-68.43	-70.12	1.0
42-EMR	1813.	0.	1.362	1.000	36.	65.44	0.68	40.44	-96.92	-99.31	1.0
52-EMR	1392.	0.	1.046	1.000	28.	50.82	0.67	31.57	-74.42	-76.26	1.0
62-EMR	1264.	0.	0.949	1.000	25.	46.23	0.67	28.66	-67.58	-69.25	1.0
RF-EMR	1359.	0.	1.021	1.000	27.	50.31	0.67	30.82	-72.67	-74.46	1.0
RF2-EMR	1212.	0.	0.910	1.000	24.	44.03	0.67	27.48	-64.78	-66.38	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS B-NETWORK-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
B-NETWORK-SYS	PVAVS	1.000	1467.2	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
3668.	2.153	1.8	0.	0.000	0.0	0.020	94.921	0.868	0.000	0.28	0.20
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B-NETWORK	3668.	0.	0.000	0.020	73.	0.00	0.00	67.34	-217.88	-198.07	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS B-SWICHGR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
B-SWICHGR-SYS	PVAVS	1.000	3270.2	1.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
8176.	4.798	1.8	0.	0.000	0.0	0.020	211.568	0.868	0.000	0.28	0.20
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B-SWITCHGEAR	8176.	0.	0.000	0.020	164.	0.00	0.00	150.10	-485.62	-441.48	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 4-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
4-IT-SYS	PVAVS	1.000	666.8	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
1667.	0.978	1.8	0.	0.000	0.0	0.020	42.976	0.871	0.000	0.28	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
4-IT		1667.	0.	0.000	0.020	33.	0.00	0.00	30.60	-99.02	-90.01	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 5-ELEC-GEN-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
5-ELEC-GEN-SYS	PVAVS	1.000	12980.3	3.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
32451.	19.044	1.8	0.	0.000	0.0	0.020	870.321	0.846	0.000	0.28	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
5-ELEC-GEN		32451.	0.	0.000	0.020	649.	0.00	0.00	595.80	-1927.58	-1752.34	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 5-MEETME-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
5-MEETME-SYS	PVAVS	1.000	1173.2	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
2933.	1.721	1.8	0.	0.000	0.0	0.020	79.462	0.840	0.000	0.28	0.20	

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
5-MEETME	2933.	0.	0.000	0.020	59.	0.00	0.00	53.85	-174.21	-158.38	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 6-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
6-IT-SYS	PVAVS	1.000	5169.5	1.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
31017.	18.202	1.8	0.	0.000	0.0	0.020	773.065	0.893	0.000	0.28	0.20

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
6-IT	31017.	0.	0.000	0.020	620.	0.00	0.00	569.47	-1842.41	-1674.92	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 7-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
7-IT-SYS	PVAVS	1.000	2034.1	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
5085.	2.984	1.8	0.	0.000	0.0	0.020	130.994	0.871	0.000	0.28	0.20

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
7-IT	424.	0.	0.000	0.020	8.	0.00	0.00	7.78	-25.17	-22.88	12.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 19-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
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19-IT-SYS	PVAVS	1.000	339.0	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
848.	0.497	1.8	0.	0.000	0.0	0.020	21.887	0.870	0.000	0.28	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
19-IT		424.	0.	0.000	0.020	8.	0.00	0.00	7.78	-25.17	-22.88	2.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1 Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL REPORT- SV-A SYSTEM DESIGN PARAMETERS 21-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY												
SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
21-IT-SYS	PVAVS	1.000	1525.7	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
3814.	2.238	1.8	0.	0.000	0.0	0.020	98.697	0.869	0.000	0.28	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
21-IT		424.	0.	0.000	0.020	8.	0.00	0.00	7.78	-25.17	-22.89	9.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1 Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL REPORT- SV-A SYSTEM DESIGN PARAMETERS 30-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY												
SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
30-IT-SYS	PVAVS	1.000	275.6	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
689.	0.404	1.8	0.	0.000	0.0	0.020	17.854	0.868	0.000	0.28	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
30-IT		689.	0.	0.000	0.020	14.	0.00	0.00	12.65	-40.93	-37.20	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1

Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 31-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
31-IT-SYS	PVAVS	1.000	551.2	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
1378.	0.809	1.8	0.	0.000	0.0	0.020	35.717	0.867	0.000	0.28	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
31-IT		689.	0.	0.000	0.020	14.	0.00	0.00	12.65	-40.93	-37.20	2.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1

Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 33-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
33-IT-SYS	PVAVS	1.000	1865.1	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
4663.	2.736	1.8	0.	0.000	0.0	0.020	121.412	0.865	0.000	0.28	0.20	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
33-IT		518.	0.	0.000	0.020	10.	0.00	0.00	9.51	-30.77	-27.98	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1

Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 42-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
42-IT-SYS	PVAVS	1.000	207.2	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
518.	0.304	1.8	0.	0.000	0.0	0.020	13.506	0.864	0.000	0.28	0.20	

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
42-IT	518.	0.	0.000	0.020	10.	0.00	0.00	9.51	-30.77	-27.98	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 43-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
43-IT-SYS	PVAVS	1.000	1865.1	0.

SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
4663.	2.736	1.8	0.	0.000	0.0	0.020	121.687	0.863	0.000	0.28	0.20

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
43-IT	518.	0.	0.000	0.020	10.	0.00	0.00	9.51	-30.77	-27.98	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 52-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
52-IT-SYS	PVAVS	1.000	207.2	0.

SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
518.	0.304	1.8	0.	0.000	0.0	0.020	13.534	0.863	0.000	0.28	0.20

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
52-IT	518.	0.	0.000	0.020	10.	0.00	0.00	9.51	-30.77	-27.98	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 53-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
53-IT-SYS	PVAVS	1.000	617.5	0.

1	DOE 2.1E	MANHATTAN WEST				DOE-2.1E-121				Thu Apr 23 10:07:01	2015SDL RUN	1
	Alnp1: 1200 kW:250 TR	SIM: VIRIDIAN ENERGY & ENVIRONMENTAL										
	REPORT- SV-A	SYSTEM DESIGN PARAMETERS				55-IT-SYS				WEATHER FILE- NEW YORK CENTRAL NY		

SYSTEM NAME		SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE				
55-IT-SYS		PVAVS		1.000		2162.2		0.				
SUPPLY FAN (CFM)		ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
5406.		3.172	1.8	0.	0.000	0.0	0.020	140.907	0.864	0.000	0.28	0.20
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
55-IT		772.	0.	0.000	0.020	15.	0.00	0.00	14.18	-45.87	-41.70	7.0
1	DOE 2.1E	MANHATTAN WEST				DOE-2.1E-121				Thu Apr 23 10:07:01	2015SDL RUN	1
	Alnp1: 1200 kW:250 TR	SIM: VIRIDIAN ENERGY & ENVIRONMENTAL										
	REPORT- SV-A	SYSTEM DESIGN PARAMETERS				62-IT-SYS				WEATHER FILE- NEW YORK CENTRAL NY		

SYSTEM NAME		SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE				
62-IT-SYS		PVAVS		1.000		308.9		0.				
SUPPLY FAN (CFM)		ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
772.		0.453	1.8	0.	0.000	0.0	0.020	20.210	0.861	0.000	0.28	0.20
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
62-IT		772.	0.	0.000	0.020	15.	0.00	0.00	14.18	-45.87	-41.70	1.0
1	DOE 2.1E	MANHATTAN WEST				DOE-2.1E-121				Thu Apr 23 10:07:01	2015SDL RUN	1
	Alnp1: 1200 kW:250 TR	SIM: VIRIDIAN ENERGY & ENVIRONMENTAL										
	REPORT- SV-A	SYSTEM DESIGN PARAMETERS				62-IT-SYS				WEATHER FILE- NEW YORK CENTRAL NY		

SYSTEM NAME		SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE				
62-IT-SYS		PVAVS		1.000		308.9		0.				
SUPPLY FAN (CFM)		ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
772.		0.453	1.8	0.	0.000	0.0	0.020	20.210	0.861	0.000	0.28	0.20
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
62-IT		772.	0.	0.000	0.020	15.	0.00	0.00	14.18	-45.87	-41.70	1.0

Alnpl: 1200 kW:250 TR			SIM: VIRIDIAN ENERGY & ENVIRONMENTAL					WEATHER FILE- NEW YORK CENTRAL NY																
REPORT- SV-A SYSTEM DESIGN PARAMETERS			63-IT-SYS																					
SYSTEM NAME			SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE															
63-IT-SYS			PVAVS		1.000		989.3		0.															
SUPPLY FAN (CFM)			ELEC (KW)		DELTA-T (F)		RETURN FAN (CFM)		ELEC (KW)		DELTA-T (F)		OUTSIDE AIR RATIO		COOLING CAPACITY (KBTU/HR)		SENSIBLE (SHR)		HEATING CAPACITY (KBTU/HR)		COOLING EIR (BTU/BTU)		HEATING EIR (BTU/BTU)	
2473.			1.451		1.8		0.		0.000		0.0		0.020		64.760		0.861		0.000		0.28		0.20	
ZONE NAME			SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)		FAN (KW)		MINIMUM FLOW RATIO		OUTSIDE AIR FLOW (CFM)		COOLING CAPACITY (KBTU/HR)		SENSIBLE (SHR)		EXTRACTION RATE (KBTU/HR)		HEATING CAPACITY (KBTU/HR)		ADDITION RATE (KBTU/HR)		MULTIPLIER	
63-IT			495.		0.		0.000		0.020		10.		0.00		0.00		9.08		-29.38		-26.71		5.0	
1 DOE 2.1E			MANHATTAN WEST					DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1																
Alnpl: 1200 kW:250 TR			SIM: VIRIDIAN ENERGY & ENVIRONMENTAL																					
REPORT- SV-A SYSTEM DESIGN PARAMETERS			68-IT-SYS					WEATHER FILE- NEW YORK CENTRAL NY																
SYSTEM NAME			SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE															
68-IT-SYS			PVAVS		1.000		197.9		0.															
SUPPLY FAN (CFM)			ELEC (KW)		DELTA-T (F)		RETURN FAN (CFM)		ELEC (KW)		DELTA-T (F)		OUTSIDE AIR RATIO		COOLING CAPACITY (KBTU/HR)		SENSIBLE (SHR)		HEATING CAPACITY (KBTU/HR)		COOLING EIR (BTU/BTU)		HEATING EIR (BTU/BTU)	
495.			0.290		1.8		0.		0.000		0.0		0.020		13.579		0.833		0.000		0.28		0.20	
ZONE NAME			SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)		FAN (KW)		MINIMUM FLOW RATIO		OUTSIDE AIR FLOW (CFM)		COOLING CAPACITY (KBTU/HR)		SENSIBLE (SHR)		EXTRACTION RATE (KBTU/HR)		HEATING CAPACITY (KBTU/HR)		ADDITION RATE (KBTU/HR)		MULTIPLIER	
68-IT			495.		0.		0.000		0.020		10.		0.00		0.00		9.08		-29.38		-26.71		1.0	
1 DOE 2.1E			MANHATTAN WEST					DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1																
Alnpl: 1200 kW:250 TR			SIM: VIRIDIAN ENERGY & ENVIRONMENTAL																					
REPORT- SV-A SYSTEM DESIGN PARAMETERS			ELEC-SYS					WEATHER FILE- NEW YORK CENTRAL NY																
SYSTEM NAME			SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE															
ELEC-SYS			PVAVS		1.000		25093.1		5.															
SUPPLY FAN (CFM)			ELEC (KW)		DELTA-T (F)		RETURN FAN (CFM)		ELEC (KW)		DELTA-T (F)		OUTSIDE AIR RATIO		COOLING CAPACITY (KBTU/HR)		SENSIBLE (SHR)		HEATING CAPACITY (KBTU/HR)		COOLING EIR (BTU/BTU)		HEATING EIR (BTU/BTU)	
62733.			14.726		0.7		0.		0.000		0.0		0.020		1523.477		0.806		0.000		0.31		0.37	

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
5-ELEC	4588.	0.	0.000	1.000	92.	0.00	0.00	84.23	-272.51	-247.73	1.0
6-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	1.0
7-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	12.0
19-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	2.0
21-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	9.0
30-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	1.0
31-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	2.0
33-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	9.0
42-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	1.0
43-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	9.0
52-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	1.0
53-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	2.0
55-ELEC	808.	0.	0.000	1.000	16.	0.00	0.00	14.83	-47.98	-43.62	7.0
62-ELEC	808.	0.	0.000	1.000	16.	0.00	0.00	14.83	-47.98	-43.62	1.0
63-ELEC	808.	0.	0.000	1.000	16.	0.00	0.00	14.83	-47.98	-43.62	5.0
68-ELEC	808.	0.	0.000	1.000	16.	0.00	0.00	14.83	-47.98	-43.62	1.0
69-BMS	659.	0.	0.000	1.000	13.	0.00	0.00	12.10	-39.14	-35.58	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS MECH-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
MECH-SYS	PVAVS	1.000	91889.8	18.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
78179.	18.352	0.7	0.	0.000	0.0	0.020	2237.288	0.734	0.000	0.31	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B1-MER	358.	0.	0.000	1.000	7.	0.00	0.00	6.57	-21.26	-19.33	1.0

B-MER-2	2687.	0.	0.000	1.000	54.	0.00	0.00	49.32	-159.58	-145.07	1.0
B-MER-1	3774.	0.	0.000	1.000	75.	0.00	0.00	69.29	-224.16	-203.78	1.0
2-MECH	543.	0.	0.000	1.000	11.	0.00	0.00	9.98	-32.28	-29.34	1.0
4-MECH	11406.	0.	0.000	1.000	228.	0.00	0.00	209.42	-677.53	-615.94	1.0
5-PUMP	2793.	0.	0.000	1.000	56.	0.00	0.00	51.29	-165.93	-150.84	1.0
6-MECH	366.	0.	0.000	1.000	7.	0.00	0.00	6.72	-21.74	-19.76	1.0
7-MECH	366.	0.	0.000	1.000	7.	0.00	0.00	6.72	-21.74	-19.76	12.0
19-MECH	367.	0.	0.000	1.000	7.	0.00	0.00	6.73	-21.78	-19.80	2.0
21-MECH	366.	0.	0.000	1.000	7.	0.00	0.00	6.72	-21.74	-19.76	9.0
30-MECH	367.	0.	0.000	1.000	7.	0.00	0.00	6.73	-21.78	-19.80	1.0
31-MECH	619.	0.	0.000	1.000	12.	0.00	0.00	11.37	-36.79	-33.44	2.0
33-MECH	366.	0.	0.000	1.000	7.	0.00	0.00	6.73	-21.76	-19.78	9.0
42-MECH	366.	0.	0.000	1.000	7.	0.00	0.00	6.71	-21.72	-19.75	1.0
43-MECH	366.	0.	0.000	1.000	7.	0.00	0.00	6.71	-21.72	-19.75	9.0
52-MECH	366.	0.	0.000	1.000	7.	0.00	0.00	6.71	-21.72	-19.75	1.0
53-MECH	718.	0.	0.000	1.000	14.	0.00	0.00	13.18	-42.63	-38.76	2.0
55-MECH	407.	0.	0.000	1.000	8.	0.00	0.00	7.47	-24.18	-21.98	7.0
62-MECH	407.	0.	0.000	1.000	8.	0.00	0.00	7.47	-24.18	-21.98	1.0
63-MECH	407.	0.	0.000	1.000	8.	0.00	0.00	7.47	-24.18	-21.98	5.0
68-MECH	32182.	0.	0.000	1.000	644.	0.00	0.00	590.86	-1911.61	-1737.83	1.0

1 DOE 2.1E
MANHATTAN WEST
DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1

Alnpl: 1200 kw:250 TR
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- SV-A SYSTEM DESIGN PARAMETERS
STORAGE-SYS
WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE					
STORAGE-SYS	PVAVS		1.000	33101.6		0.					
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
20787.	4.880	0.7	0.	0.000	0.0	0.020	677.754	0.692	0.000	0.31	0.37
ZONE	SUPPLY FLOW		EXHAUST FLOW	FAN		MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION RATE	HEATING CAPACITY	ADDITION RATE

NAME	(CFM)	(CFM)	(KW)	RATIO	(CFM)	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULTIPLIER
B1-STORAGE	1076.	0.	0.000	1.000	22.	0.00	0.00	19.76	-63.93	-58.12	1.0
B-STORAGE-2	1595.	0.	0.000	1.000	32.	0.00	0.00	29.28	-94.74	-86.13	1.0
B-BIKE-STOR	1203.	0.	0.000	1.000	24.	0.00	0.00	22.09	-71.46	-64.96	1.0
B-STORAGE	1634.	0.	0.000	1.000	33.	0.00	0.00	29.99	-97.04	-88.22	1.0
B-PACKAGE	365.	0.	0.000	1.000	7.	0.00	0.00	6.70	-21.68	-19.71	1.0
4-STORAGE	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	1.0
21-STORAGE	349.	0.	0.000	1.000	7.	0.00	0.00	6.40	-20.71	-18.83	9.0
30-STORAGE	80.	0.	0.000	1.000	2.	0.00	0.00	1.48	-4.78	-4.34	1.0
31-STORAGE	391.	0.	0.000	1.000	8.	0.00	0.00	7.18	-23.23	-21.12	2.0
33-STORAGE	141.	0.	0.000	1.000	3.	0.00	0.00	2.59	-8.37	-7.61	9.0
42-STORAGE	141.	0.	0.000	1.000	3.	0.00	0.00	2.59	-8.37	-7.61	1.0
43-STORAGE	546.	0.	0.000	1.000	11.	0.00	0.00	10.02	-32.43	-29.48	9.0
52-STORAGE	263.	0.	0.000	1.000	5.	0.00	0.00	4.83	-15.63	-14.21	1.0
53-STORAGE	223.	0.	0.000	1.000	4.	0.00	0.00	4.09	-13.22	-12.02	2.0
68-STORAGE	976.	0.	0.000	1.000	20.	0.00	0.00	17.92	-57.99	-52.71	1.0
69-STORAGE	1997.	0.	0.000	1.000	40.	0.00	0.00	36.66	-118.62	-107.83	1.0
RF-STORAGE	533.	0.	0.000	1.000	11.	0.00	0.00	9.78	-31.64	-28.76	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS STAIR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
STAIR-SYS	PVAVS	1.000	51133.8	365.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
25751.	6.045	0.7	0.	0.000	0.0	0.020	883.280	0.679	0.000	0.31	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B1-VEST	1378.	0.	0.000	1.000	28.	0.00	0.00	25.30	-81.84	-74.40	1.0
B1-STAIR	106.	0.	0.000	1.000	2.	0.00	0.00	1.94	-6.28	-5.71	1.0

B-STAIR	329.	0.	0.000	1.000	7.	0.00	0.00	6.04	-19.55	-17.77	1.0
G-STAIR	558.	0.	0.000	1.000	11.	0.00	0.00	10.24	-33.13	-30.11	1.0
2-STAIR	335.	0.	0.000	1.000	7.	0.00	0.00	6.14	-19.88	-18.07	1.0
3-STAIR	335.	0.	0.000	1.000	7.	0.00	0.00	6.15	-19.90	-18.09	1.0
4-STAIR	445.	0.	0.000	1.000	9.	0.00	0.00	8.16	-26.41	-24.01	1.0
5-STAIR	325.	0.	0.000	1.000	6.	0.00	0.00	5.96	-19.29	-17.54	1.0
6-STAIR	330.	0.	0.000	1.000	7.	0.00	0.00	6.05	-19.59	-17.81	1.0
7-STAIR	330.	0.	0.000	1.000	7.	0.00	0.00	6.05	-19.59	-17.81	12.0
19-STAIR	329.	0.	0.000	1.000	7.	0.00	0.00	6.04	-19.56	-17.78	2.0
21-STAIR	330.	0.	0.000	1.000	7.	0.00	0.00	6.05	-19.58	-17.80	9.0
30-STAIR	329.	0.	0.000	1.000	7.	0.00	0.00	6.04	-19.56	-17.78	1.0
31-STAIR	329.	0.	0.000	1.000	7.	0.00	0.00	6.05	-19.56	-17.78	2.0
33-STAIR	334.	0.	0.000	1.000	7.	0.00	0.00	6.13	-19.83	-18.03	9.0
42-STAIR	334.	0.	0.000	1.000	7.	0.00	0.00	6.14	-19.86	-18.05	1.0
43-STAIR	334.	0.	0.000	1.000	7.	0.00	0.00	6.14	-19.86	-18.05	9.0
52-STAIR	334.	0.	0.000	1.000	7.	0.00	0.00	6.14	-19.86	-18.05	1.0
53-STAIR	334.	0.	0.000	1.000	7.	0.00	0.00	6.14	-19.86	-18.05	2.0
55-STAIR	361.	0.	0.000	1.000	7.	0.00	0.00	6.63	-21.46	-19.51	7.0
62-STAIR	361.	0.	0.000	1.000	7.	0.00	0.00	6.63	-21.46	-19.51	1.0
63-STAIR	360.	0.	0.000	1.000	7.	0.00	0.00	6.60	-21.37	-19.43	5.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1

Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS STAIR-SYS WEATHER FILE- NEW YORK CENTRAL NY
----- (CONTINUED) -----

68-STAIR	357.	0.	0.000	1.000	7.	0.00	0.00	6.55	-21.18	-19.26	1.0
69-STAIR	196.	0.	0.000	1.000	4.	0.00	0.00	3.59	-11.61	-10.56	1.0
RF-STAIR	231.	0.	0.000	1.000	5.	0.00	0.00	4.24	-13.70	-12.46	1.0
RF2-STAIR	219.	0.	0.000	1.000	4.	0.00	0.00	4.02	-13.02	-11.84	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1

Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS PARKING-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
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PARKING-SYS	PSZ		1.000		53499.9		11.					
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
30000.	14.671	1.5	27000.	7.728	0.9	1.000	2195.896	1.000	-3858.529	0.31	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B-PARKING		30000.	0.	0.000	1.000	30000.	0.00	0.00	1134.00	-1782.00	-2268.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:07:01 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS LOADING-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE	
LOADING-SYS	PSZ	1.000	13412.2	96.	
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)
58000.	14.453	0.8	52000.	19.073	1.1
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO
B-LOADING		58000.	0.	0.000	1.000

OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
1.000	4175.132	1.000	-7512.784	0.31	0.37
OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)
58000.	0.00	0.00	2192.40	-3445.20	-3132.00

1 DOE 2.1E
Alnp1: 1200 kW:250 TR

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Jan 29 18:20:22 2015SDL RUN 1

REPORT- LV-D

DETAILS OF EXTERIOR SURFACES IN THE PROJECT

WEATHER FILE- NEW YORK CENTRAL NY

NUMBER OF EXTERIOR SURFACES 636 RECTANGULAR 636 OTHER 0
(U-VALUE INCLUDES OUTSIDE AIR FILM; WINDOW INCLUDES FRAME, IF DEFINED)

SURFACE	SPACE	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	AZIMUTH
	SHAFT	0.000	0.00	0.172	154.72	0.172	154.72	NORTH
	SHAFT	0.000	0.00	0.172	439.78	0.172	439.78	NORTH
	SHAFT	0.000	0.00	0.124	1885.00	0.124	1885.00	NORTH
	SHAFT	0.000	0.00	0.172	195.30	0.172	195.30	EAST
	SHAFT	0.000	0.00	0.172	645.40	0.172	645.40	WEST
	SHAFT	0.000	0.00	0.034	307.52	0.034	307.52	ROOF
	SHAFT	0.000	0.00	0.034	328.83	0.034	328.83	ROOF
	SHAFT	0.000	0.00	0.034	90.39	0.034	90.39	ROOF
	SHAFT	0.000	0.00	0.034	107.14	0.034	107.14	ROOF
	SHAFT	0.000	0.00	0.234	938.60	0.234	938.60	UNDERGRND
	SHAFT	0.000	0.00	0.234	2084.40	0.234	2084.40	UNDERGRND
	SHAFT	0.000	0.00	0.234	475.86	0.234	475.86	UNDERGRND
	SHAFT	0.000	0.00	0.234	625.00	0.234	625.00	UNDERGRND
	B1-VEST	0.000	0.00	0.234	4795.92	0.234	4795.92	UNDERGRND
	B1-VEST	0.000	0.00	0.234	1354.24	0.234	1354.24	UNDERGRND
	B1-VEST	0.000	0.00	0.234	65.61	0.234	65.61	UNDERGRND
	B1-VEST	0.000	0.00	0.234	1332.25	0.234	1332.25	UNDERGRND
	B1-STORAGE	0.000	0.00	0.234	665.64	0.234	665.64	UNDERGRND
	B1-STORAGE	0.000	0.00	0.234	1056.25	0.234	1056.25	UNDERGRND
	B1-STAIR	0.000	0.00	0.234	190.44	0.234	190.44	UNDERGRND
	B1-STAIR	0.000	0.00	0.234	12.96	0.234	12.96	UNDERGRND

B1-MER	0.000	0.00	0.234	297.72	0.234	297.72	UNDERGRND
B1-MER	0.000	0.00	0.234	139.24	0.234	139.24	UNDERGRND
B1-MER	0.000	0.00	0.234	153.76	0.234	153.76	UNDERGRND
B1-MER	0.000	0.00	0.234	275.56	0.234	275.56	UNDERGRND
B1-BOH	0.000	0.00	0.234	496.80	0.234	496.80	UNDERGRND
B1-BOH	0.000	0.00	0.234	1156.00	0.234	1156.00	UNDERGRND
B1-BOH	0.000	0.00	0.234	193.21	0.234	193.21	UNDERGRND
B1-BOH	0.000	0.00	0.234	739.84	0.234	739.84	UNDERGRND
B1-CORR	0.000	0.00	0.234	858.49	0.234	858.49	UNDERGRND
B-PARKING	0.000	0.00	0.034	3885.69	0.034	3885.69	ROOF
B-PARKING	0.000	0.00	0.034	1634.19	0.034	1634.19	ROOF
B-PARKING	0.000	0.00	0.034	21865.18	0.034	21865.18	ROOF
B-PARKING	0.000	0.00	0.034	10875.55	0.034	10875.55	ROOF
B-PARKING	0.000	0.00	0.034	8759.02	0.034	8759.02	ROOF
B-PARKING	0.000	0.00	0.034	4609.08	0.034	4609.08	ROOF
B-PARKING	0.000	0.00	0.034	1616.02	0.034	1616.02	ROOF
B-MER-2	0.000	0.00	0.034	424.42	0.034	424.42	ROOF
B-MER-2	0.000	0.00	0.034	443.55	0.034	443.55	ROOF
B-STORAGE-2	0.000	0.00	0.034	1915.95	0.034	1915.95	ROOF
B-STORAGE-2	0.000	0.00	0.034	465.96	0.034	465.96	ROOF
B-LOADING	0.000	0.00	0.034	266.84	0.034	266.84	ROOF
B-LOADING	0.000	0.00	0.034	2275.23	0.034	2275.23	ROOF
B-LOADING	0.000	0.00	0.034	696.27	0.034	696.27	ROOF
B-LOADING	0.000	0.00	0.034	4509.46	0.034	4509.46	ROOF
B-BIKE-STOR	0.000	0.00	0.034	213.16	0.034	213.16	ROOF
B-BIKE-STOR	0.000	0.00	0.034	1616.72	0.034	1616.72	ROOF
B-BIKE-STOR	0.000	0.00	0.034	168.12	0.034	168.12	ROOF
B-LOCKERS	0.000	0.00	0.034	573.35	0.034	573.35	ROOF
B-OFFICE	0.000	0.00	0.034	468.83	0.034	468.83	ROOF

B-OFFICE	0.000	0.00	0.034	54.05	0.034	54.05	ROOF
B-OFFICE	0.000	0.00	0.034	224.81	0.034	224.81	ROOF
B-CORR-2	0.000	0.00	0.034	92.63	0.034	92.63	ROOF
B-CORR-2	0.000	0.00	0.034	268.93	0.034	268.93	ROOF
B-CORR-2	0.000	0.00	0.034	620.79	0.034	620.79	ROOF
B-CORR-2	0.000	0.00	0.034	332.86	0.034	332.86	ROOF
B-CORR-2	0.000	0.00	0.034	18.35	0.034	18.35	ROOF
B-CORR-2	0.000	0.00	0.034	242.64	0.034	242.64	ROOF
B-MER-1	0.000	0.00	0.034	601.44	0.034	601.44	ROOF
B-MER-1	0.000	0.00	0.034	1729.83	0.034	1729.83	ROOF
B-MER-1	0.000	0.00	0.034	658.60	0.034	658.60	ROOF
B-MER-1	0.000	0.00	0.034	140.16	0.034	140.16	ROOF
B-MER-1	0.000	0.00	0.034	555.90	0.034	555.90	ROOF
B-MER-1	0.000	0.00	0.034	1466.82	0.034	1466.82	ROOF
B-STORAGE	0.000	0.00	0.034	906.05	0.034	906.05	ROOF
B-STAIR	0.000	0.00	0.034	224.48	0.034	224.48	ROOF
B-NETWORK	0.000	0.00	0.034	78.21	0.034	78.21	ROOF
B-NETWORK	0.000	0.00	0.034	78.21	0.034	78.21	ROOF
B-NETWORK	0.000	0.00	0.034	78.21	0.034	78.21	ROOF
B-NETWORK	0.000	0.00	0.034	869.59	0.034	869.59	ROOF
B-NETWORK	0.000	0.00	0.034	113.39	0.034	113.39	ROOF
B-SWITCHGEAR	0.000	0.00	0.034	300.42	0.034	300.42	ROOF
B-PARKING	0.000	0.00	0.234	3184.50	0.234	3184.50	UNDERGRND
B-PARKING	0.000	0.00	0.234	52532.64	0.234	52532.64	UNDERGRND
B-MER-2	0.000	0.00	0.234	2892.45	0.234	2892.45	UNDERGRND
B-MER-2	0.000	0.00	0.234	4225.00	0.234	4225.00	UNDERGRND
B-STORAGE-2	0.000	0.00	0.234	2781.24	0.234	2781.24	UNDERGRND
B-STORAGE-2	0.000	0.00	0.234	2530.09	0.234	2530.09	UNDERGRND
B-PACKAGE	0.000	0.00	0.234	556.96	0.234	556.96	UNDERGRND
B-LOADING	0.000	0.00	0.234	1334.03	0.234	1334.03	UNDERGRND

B-LOADING	0.000	0.00	0.234	12882.25	0.234	12882.25	UNDERGRND
B-BIKE-STOR	0.000	0.00	0.234	1900.96	0.234	1900.96	UNDERGRND
B-LOCKERS	0.000	0.00	0.234	1162.81	0.234	1162.81	UNDERGRND
B-OFFICE	0.000	0.00	0.423	3844.00	0.423	3844.00	UNDERGRND
B-CORR-2	0.000	0.00	0.234	355.25	0.234	355.25	UNDERGRND
B-CORR-2	0.000	0.00	0.234	4342.81	0.234	4342.81	UNDERGRND
B-MER-1	0.000	0.00	0.234	3168.00	0.234	3168.00	UNDERGRND
B-MER-1	0.000	0.00	0.234	6115.24	0.234	6115.24	UNDERGRND
B-STORAGE	0.000	0.00	0.234	2652.25	0.234	2652.25	UNDERGRND
B-STAIR	0.000	0.00	0.234	164.83	0.234	164.83	UNDERGRND
B-STAIR	0.000	0.00	0.234	376.36	0.234	376.36	UNDERGRND
B-NETWORK	0.000	0.00	0.234	2458.50	0.234	2458.50	UNDERGRND
B-NETWORK	0.000	0.00	0.234	1376.41	0.234	1376.41	UNDERGRND
B-SWITCHGEAR	0.000	0.00	0.234	3058.09	0.234	3058.09	UNDERGRND
G-STAIR	0.445	67.54	0.172	337.98	0.217	405.52	NORTH
G-STAIR	0.000	0.00	0.124	513.76	0.124	513.76	NORTH
G-CORR-2	0.000	0.00	0.124	202.41	0.124	202.41	NORTH
G-RETAIL-W	0.000	0.00	0.124	85.86	0.124	85.86	NORTH
G-LOBBY-N	1.032	5308.78	0.172	504.18	0.957	5812.96	NORTH
G-RETAIL-N	1.032	1084.70	0.172	250.01	0.871	1334.72	NORTH
G-LOBBY-N	1.032	343.08	0.172	33.08	0.956	376.16	NORTH
G-LOBBY-E	1.032	349.39	0.172	33.67	0.956	383.06	NORTH-EAST
G-LOBBY-E	1.032	5875.18	0.656	557.97	0.999	6433.16	EAST
G-RETAIL-S	1.032	223.43	0.172	51.68	0.870	275.11	EAST
G-LOBBY-E	1.032	354.79	0.172	33.69	0.957	388.48	EAST
G-LOBBY-S	1.032	337.23	0.172	32.52	0.956	369.75	SOUTH-EAST
G-CORR-2	0.000	0.00	0.124	1385.49	0.124	1385.49	SOUTH
G-RETAIL-S	1.032	2417.41	0.172	558.98	0.870	2976.40	SOUTH
G-LOBBY-S	1.032	3065.23	0.172	292.10	0.957	3357.33	SOUTH

G-STAIR	0.445	22.51	0.124	223.75	0.153	246.26	WEST
G-CORR-2	0.000	0.00	0.124	248.11	0.124	248.11	WEST
G-RETAIL-W	0.000	0.00	0.124	1215.62	0.124	1215.62	WEST
G-STAIR	0.000	0.00	0.124	675.32	0.124	675.32	WEST
G-RETAIL-W	0.000	0.00	0.124	1363.34	0.124	1363.34	WEST
2-STAIR	0.000	0.00	0.172	158.24	0.172	158.24	NORTH
2-STAIR	0.000	0.00	0.124	356.93	0.124	356.93	NORTH
2-RETAIL-N	1.032	1533.40	0.172	188.21	0.938	1721.61	NORTH
2-RETAIL-W	0.000	0.00	0.124	59.22	0.124	59.22	NORTH
2-CORR	0.000	0.00	0.124	141.05	0.124	141.05	NORTH
2-RETAIL-S	1.032	277.88	0.172	34.66	0.937	312.54	EAST
2-CORR	0.000	0.00	0.124	955.68	0.124	955.68	SOUTH
2-RETAIL-S	1.032	3009.10	0.172	372.23	0.937	3381.33	SOUTH
2-RETAIL-W	0.000	0.00	0.124	103.16	0.124	103.16	WEST
2-STAIR	0.000	0.00	0.124	375.08	0.124	375.08	WEST
2-RETAIL-W	0.000	0.00	0.124	1381.01	0.124	1381.01	WEST
2-CORR	0.000	0.00	0.124	170.66	0.124	170.66	WEST
2-STAIR	0.000	0.00	0.124	170.34	0.124	170.34	WEST
2-RETAIL-W	0.000	0.00	0.124	1528.63	0.124	1528.63	WEST
3-STAIR	0.000	0.00	0.172	124.62	0.172	124.62	NORTH
3-STAIR	0.000	0.00	0.124	280.25	0.124	280.25	NORTH
3-CORR	0.000	0.00	0.124	129.68	0.124	129.68	NORTH
3-CORR	0.000	0.00	0.124	618.10	0.124	618.10	SOUTH
3-STAIR	0.000	0.00	0.124	295.12	0.124	295.12	WEST
3-STAIR	0.000	0.00	0.124	133.75	0.124	133.75	WEST
3-CORR	0.000	0.00	0.124	110.42	0.124	110.42	WEST
3-CORR	0.000	0.00	0.124	66.74	0.124	66.74	WEST
3-STAIR	0.000	0.00	0.034	14.08	0.034	14.08	ROOF
3-STAIR	0.000	0.00	0.034	25.26	0.034	25.26	ROOF
3-STAIR	0.000	0.00	0.034	11.12	0.034	11.12	ROOF

3-PLENUM	0.000	0.00	0.124	27.70	0.124	27.70	NORTH
3-PLENUM	0.000	0.00	0.172	403.33	0.172	403.33	NORTH
3-PLENUM	0.000	0.00	0.172	16.79	0.172	16.79	NORTH
3-PLENUM	0.000	0.00	0.172	17.09	0.172	17.09	NORTH-EAST
3-PLENUM	0.000	0.00	0.172	287.08	0.172	287.08	EAST
3-PLENUM	0.000	0.00	0.172	26.22	0.172	26.22	EAST
3-PLENUM	0.000	0.00	0.172	17.34	0.172	17.34	EAST
3-PLENUM	0.000	0.00	0.172	16.52	0.172	16.52	SOUTH-EAST
3-PLENUM	0.000	0.00	0.172	149.82	0.172	149.82	SOUTH
3-PLENUM	0.000	0.00	0.124	132.02	0.124	132.02	SOUTH
3-PLENUM	0.000	0.00	0.172	283.71	0.172	283.71	SOUTH
3-PLENUM	0.000	0.00	0.124	142.38	0.124	142.38	WEST
3-PLENUM	0.000	0.00	0.172	115.87	0.172	115.87	WEST
3-PLENUM	0.000	0.00	0.124	23.58	0.124	23.58	WEST
3-PLENUM	0.000	0.00	0.034	289.85	0.034	289.85	ROOF
3-PLENUM	0.000	0.00	0.034	4.92	0.034	4.92	ROOF
3-PLENUM	0.000	0.00	0.034	41.69	0.034	41.69	ROOF
3-PLENUM	0.000	0.00	0.034	405.07	0.034	405.07	ROOF
3-PLENUM	0.000	0.00	0.034	336.60	0.034	336.60	ROOF
3-PLENUM	0.000	0.00	0.034	568.00	0.034	568.00	ROOF
3-PLENUM	0.000	0.00	0.034	159.53	0.034	159.53	ROOF
3-PLENUM	0.000	0.00	0.034	1867.32	0.034	1867.32	ROOF
4-MECH	0.000	0.00	0.172	104.36	0.172	104.36	NORTH
4-MECH	0.000	0.00	0.124	169.96	0.124	169.96	NORTH
4-MECH	0.000	0.00	0.172	10.26	0.172	10.26	NORTH
4-MECH	1.437	55.72	0.172	35.81	0.942	91.53	NORTH
4-MECH	0.000	0.00	0.172	69.39	0.172	69.39	NORTH
4-MECH	1.437	1441.38	0.172	916.80	0.945	2358.18	NORTH
4-MECH	0.000	0.00	0.172	53.46	0.172	53.46	NORTH

4-STAIR	0.000	0.00	0.124	302.67	0.124	302.67	NORTH
4-MECH	0.000	0.00	0.172	102.87	0.172	102.87	NORTH
4-MECH	0.000	0.00	0.172	103.68	0.172	103.68	NORTH-EAST
4-MECH	0.000	0.00	0.172	1762.83	0.172	1762.83	EAST
4-MECH	1.437	41.27	0.172	26.77	0.940	68.04	EAST
4-MECH	1.437	37.31	0.172	29.79	0.876	67.10	EAST
4-MECH	0.000	0.00	0.172	102.60	0.172	102.60	EAST
4-MECH	0.000	0.00	0.172	117.58	0.172	117.58	SOUTH-EAST
4-MECH	1.437	1442.62	0.172	917.85	0.945	2360.48	SOUTH
4-MECH	1.437	23.19	0.172	17.58	0.892	40.77	SOUTH
4-MECH	0.000	0.00	0.172	68.72	0.172	68.72	SOUTH
4-CORR	0.000	0.00	0.124	875.07	0.124	875.07	SOUTH
4-MECH	0.000	0.00	0.172	36.99	0.172	36.99	SOUTH
4-MECH	0.000	0.00	0.172	103.95	0.172	103.95	SOUTH
4-MECH	0.000	0.00	0.172	100.04	0.172	100.04	SOUTH-WEST
4-MECH	1.437	169.55	0.172	108.42	0.944	277.96	SOUTH-WEST
4-MECH	1.437	40.78	0.172	26.32	0.941	67.10	WEST
4-MECH	0.000	0.00	0.172	44.15	0.172	44.15	WEST
4-MECH	0.000	0.00	0.124	1011.42	0.124	1011.42	WEST
4-MECH	1.437	40.86	0.172	27.18	0.932	68.04	WEST
4-CORR	0.000	0.00	0.124	144.72	0.124	144.72	WEST
4-MECH	0.000	0.00	0.172	142.96	0.172	142.96	WEST
4-STAIR	0.000	0.00	0.124	144.45	0.124	144.45	WEST
4-MECH	0.000	0.00	0.172	105.03	0.172	105.03	WEST
4-CORR	0.000	0.00	0.034	691.55	0.034	691.55	ROOF
4-MECH	0.000	0.00	0.034	10.62	0.034	10.62	ROOF
4-MECH	0.000	0.00	0.034	134.71	0.034	134.71	ROOF
4-STAIR	0.000	0.00	0.034	239.89	0.034	239.89	ROOF
5-ELEC-GEN	0.000	0.00	0.172	208.71	0.172	208.71	NORTH
5-PUMP	0.000	0.00	0.172	106.92	0.172	106.92	NORTH

5-ELEC-GEN	1.437	95.06	0.172	88.00	0.829	183.06	NORTH
5-PUMP	1.437	883.71	0.172	534.87	0.960	1418.58	NORTH
5-ELEC-GEN	0.000	0.00	0.172	140.40	0.172	140.40	NORTH
5-ELEC-GEN	1.437	2053.94	0.172	1242.22	0.961	3296.16	NORTH
5-PUMP	0.000	0.00	0.172	205.74	0.172	205.74	NORTH
5-PUMP	0.000	0.00	0.172	207.63	0.172	207.63	NORTH-EAST
5-ELEC-GEN	0.000	0.00	0.172	666.36	0.172	666.36	EAST
5-ELEC-GEN	1.437	76.82	0.172	58.72	0.889	135.54	EAST
5-ELEC-GEN	1.437	73.78	0.172	60.41	0.868	134.19	EAST
5-PUMP	0.000	0.00	0.172	670.14	0.172	670.14	EAST
5-CORR	0.000	0.00	0.172	2189.16	0.172	2189.16	EAST
5-ELEC-GEN	0.000	0.00	0.172	205.20	0.172	205.20	EAST
5-ELEC-GEN	0.000	0.00	0.172	235.17	0.172	235.17	SOUTH-EAST
5-ELEC-GEN	0.000	0.00	0.172	137.43	0.172	137.43	SOUTH
5-ELEC-GEN	1.437	2944.40	0.172	1776.55	0.961	4720.95	SOUTH
5-ELEC-GEN	1.437	54.03	0.172	35.88	0.932	89.91	SOUTH
5-ELEC-GEN	0.000	0.00	0.172	73.98	0.172	73.98	SOUTH
5-ELEC-GEN	0.000	0.00	0.172	207.90	0.172	207.90	SOUTH
5-ELEC-GEN	0.000	0.00	0.172	200.07	0.172	200.07	SOUTH-WEST
5-ELEC-GEN	1.437	335.82	0.172	220.11	0.936	555.93	SOUTH-WEST
5-ELEC-GEN	0.000	0.00	0.172	1707.21	0.172	1707.21	WEST
5-PUMP	0.000	0.00	0.172	134.19	0.172	134.19	WEST
5-ELEC-GEN	0.000	0.00	0.124	1267.92	0.124	1267.92	WEST
5-ELEC-GEN	1.437	79.52	0.172	56.56	0.912	136.08	WEST
5-ELEC-GEN	0.000	0.00	0.172	210.06	0.172	210.06	WEST
6-OFC-N	0.000	0.00	0.172	87.35	0.172	87.35	NORTH
6-OFC-N	0.445	1723.67	0.172	353.05	0.398	2076.71	NORTH
6-OFC-N	0.445	76.35	0.172	15.97	0.397	92.32	NORTH
6-OFC-E	0.445	73.16	0.172	15.31	0.397	88.48	NORTH-EAST

6-OFC-E	0.445	1225.40	0.172	252.07	0.398	1477.47	EAST
6-OFC-E	0.445	77.57	0.172	15.88	0.398	93.45	EAST
6-OFC-S	0.445	85.45	0.172	17.60	0.398	103.06	SOUTH-EAST
6-OFC-S	0.445	1713.35	0.172	351.05	0.398	2064.40	SOUTH
6-OFC-S	0.445	72.13	0.172	14.76	0.398	86.90	SOUTH
6-OFC-W	0.445	70.63	0.172	14.46	0.398	85.09	SOUTH-WEST
6-OFC-W	0.445	468.72	0.124	1005.03	0.226	1473.75	WEST
6-OFC-W	0.000	0.00	0.172	87.91	0.172	87.91	WEST
6-OFC-W	0.000	0.00	0.172	104.24	0.172	104.24	FLOOR
6-OFC-S	0.000	0.00	0.172	881.24	0.172	881.24	FLOOR
6-OFC-N	0.000	0.00	0.034	867.86	0.034	867.86	ROOF
6-PLENUM	0.000	0.00	0.172	17.01	0.172	17.01	NORTH
6-PLENUM	0.000	0.00	0.172	404.36	0.172	404.36	NORTH
6-PLENUM	0.000	0.00	0.172	17.91	0.172	17.91	NORTH
6-PLENUM	0.000	0.00	0.172	17.31	0.172	17.31	NORTH-EAST
6-PLENUM	0.000	0.00	0.172	287.56	0.172	287.56	EAST
6-PLENUM	0.000	0.00	0.172	18.19	0.172	18.19	EAST
6-PLENUM	0.000	0.00	0.172	20.06	0.172	20.06	SOUTH-EAST
6-PLENUM	0.000	0.00	0.172	401.92	0.172	401.92	SOUTH
6-PLENUM	0.000	0.00	0.172	16.92	0.172	16.92	SOUTH
6-PLENUM	0.000	0.00	0.172	16.59	0.172	16.59	SOUTH-WEST
6-PLENUM	0.000	0.00	0.172	286.92	0.172	286.92	WEST
6-PLENUM	0.000	0.00	0.172	17.12	0.172	17.12	WEST
7-OFC-N	0.000	0.00	0.172	1048.19	0.172	1048.19	NORTH
7-OFC-N	0.445	20684.03	0.172	4236.54	0.398	24920.57	NORTH
7-OFC-N	0.445	916.24	0.172	191.61	0.397	1107.85	NORTH
7-OFC-E	0.445	877.97	0.172	183.78	0.397	1061.75	NORTH-EAST
7-OFC-E	0.445	14704.84	0.172	3024.86	0.398	17729.70	EAST
7-OFC-E	0.445	930.87	0.172	190.54	0.398	1121.41	EAST
7-OFC-S	0.445	1025.42	0.172	211.25	0.398	1236.67	SOUTH-EAST

7-OFC-S	0.445	20560.21	0.172	4212.55	0.398	24772.76	SOUTH
7-OFC-S	0.445	865.59	0.172	177.18	0.398	1042.76	SOUTH
7-OFC-W	0.445	847.58	0.172	173.49	0.398	1021.07	SOUTH-WEST
7-OFC-W	0.445	14520.24	0.172	3164.71	0.396	17684.95	WEST
7-OFC-W	0.000	0.00	0.172	1054.97	0.172	1054.97	WEST
7-PLENUM	0.000	0.00	0.172	204.07	0.172	204.07	NORTH
7-PLENUM	0.000	0.00	0.172	4852.32	0.172	4852.32	NORTH
7-PLENUM	0.000	0.00	0.172	214.90	0.172	214.90	NORTH
7-PLENUM	0.000	0.00	0.172	207.77	0.172	207.77	NORTH-EAST
7-PLENUM	0.000	0.00	0.172	3450.74	0.172	3450.74	EAST
7-PLENUM	0.000	0.00	0.172	218.33	0.172	218.33	EAST
7-PLENUM	0.000	0.00	0.172	240.77	0.172	240.77	SOUTH-EAST
7-PLENUM	0.000	0.00	0.172	4823.02	0.172	4823.02	SOUTH
7-PLENUM	0.000	0.00	0.172	203.02	0.172	203.02	SOUTH
7-PLENUM	0.000	0.00	0.172	199.06	0.172	199.06	SOUTH-WEST
7-PLENUM	0.000	0.00	0.172	3443.09	0.172	3443.09	WEST
7-PLENUM	0.000	0.00	0.172	205.39	0.172	205.39	WEST
19-OFC-N	0.445	145.01	0.172	29.68	0.398	174.70	NORTH
19-OFC-N	0.445	3447.71	0.172	705.72	0.398	4153.43	NORTH
19-OFC-N	0.445	153.27	0.172	31.37	0.398	184.64	NORTH
19-OFC-E	0.445	146.89	0.172	30.07	0.398	176.96	NORTH-EAST
19-OFC-E	0.445	2452.50	0.172	502.45	0.398	2954.95	EAST
19-OFC-E	0.445	155.15	0.172	31.76	0.398	186.90	EAST
19-OFC-S	0.445	170.90	0.172	35.21	0.398	206.11	SOUTH-EAST
19-OFC-S	0.445	3427.08	0.172	701.72	0.398	4128.79	SOUTH
19-OFC-S	0.445	144.26	0.172	29.53	0.398	173.79	SOUTH
19-OFC-W	0.445	141.26	0.172	28.92	0.398	170.18	SOUTH-WEST
19-OFC-W	0.445	2446.68	0.172	500.81	0.398	2947.49	WEST
19-OFC-W	0.445	145.95	0.172	29.88	0.398	175.83	WEST

19-PLENUM	0.000	0.00	0.172	34.01	0.172	34.01	NORTH
19-PLENUM	0.000	0.00	0.172	808.63	0.172	808.63	NORTH
19-PLENUM	0.000	0.00	0.172	35.95	0.172	35.95	NORTH
19-PLENUM	0.000	0.00	0.172	34.45	0.172	34.45	NORTH-EAST
19-PLENUM	0.000	0.00	0.172	575.30	0.172	575.30	EAST
19-PLENUM	0.000	0.00	0.172	36.39	0.172	36.39	EAST
19-PLENUM	0.000	0.00	0.172	40.08	0.172	40.08	SOUTH-EAST
19-PLENUM	0.000	0.00	0.172	803.84	0.172	803.84	SOUTH
19-PLENUM	0.000	0.00	0.172	33.88	0.172	33.88	SOUTH
19-PLENUM	0.000	0.00	0.172	33.13	0.172	33.13	SOUTH-WEST
19-PLENUM	0.000	0.00	0.172	573.85	0.172	573.85	WEST
19-PLENUM	0.000	0.00	0.172	34.23	0.172	34.23	WEST
21-OFC-N	0.445	650.03	0.172	136.11	0.397	786.14	NORTH
21-OFC-N	0.445	15511.33	0.172	3179.10	0.398	18690.43	NORTH
21-OFC-N	0.445	652.57	0.172	137.64	0.397	790.21	NORTH
21-OFC-E	0.445	729.39	0.172	151.33	0.398	880.72	NORTH-EAST
21-OFC-E	0.445	10636.92	0.172	2318.64	0.396	12955.56	EAST
21-OFC-E	0.445	735.30	0.172	150.51	0.398	885.81	EAST
21-OFC-S	0.445	742.05	0.172	152.91	0.398	894.96	SOUTH-EAST
21-OFC-S	0.445	15421.00	0.172	3158.57	0.398	18579.57	SOUTH
21-OFC-S	0.445	648.35	0.172	133.73	0.398	782.07	SOUTH
21-OFC-W	0.445	634.84	0.172	130.96	0.398	765.80	SOUTH-WEST
21-OFC-W	0.445	10997.39	0.172	2266.32	0.398	13263.71	WEST
21-OFC-W	0.445	633.99	0.172	157.23	0.390	791.23	WEST
21-PLENUM	0.000	0.00	0.172	153.05	0.172	153.05	NORTH
21-PLENUM	0.000	0.00	0.172	3638.84	0.172	3638.84	NORTH
21-PLENUM	0.000	0.00	0.172	153.85	0.172	153.85	NORTH
21-PLENUM	0.000	0.00	0.172	171.47	0.172	171.47	NORTH-EAST
21-PLENUM	0.000	0.00	0.172	2522.32	0.172	2522.32	EAST
21-PLENUM	0.000	0.00	0.172	172.46	0.172	172.46	EAST

21-PLENUM	0.000	0.00	0.172	174.24	0.172	174.24	SOUTH-EAST
21-PLENUM	0.000	0.00	0.172	3617.26	0.172	3617.26	SOUTH
21-PLENUM	0.000	0.00	0.172	152.26	0.172	152.26	SOUTH
21-PLENUM	0.000	0.00	0.172	149.09	0.172	149.09	SOUTH-WEST
21-PLENUM	0.000	0.00	0.172	2582.32	0.172	2582.32	WEST
21-PLENUM	0.000	0.00	0.172	154.04	0.172	154.04	WEST
30-OFC-N	0.445	72.13	0.172	15.22	0.397	87.35	NORTH
30-OFC-N	0.445	1618.71	0.172	331.67	0.398	1950.38	NORTH
30-OFC-N	0.445	127.94	0.172	26.30	0.398	154.25	NORTH
30-OFC-E	0.445	86.20	0.172	17.98	0.398	104.19	NORTH-EAST
30-OFC-E	0.445	1116.22	0.172	244.75	0.396	1360.97	EAST
30-OFC-E	0.445	104.49	0.172	22.41	0.397	126.90	EAST
30-OFC-S	0.445	109.18	0.172	22.91	0.397	132.10	SOUTH-EAST
30-OFC-S	0.445	1619.93	0.172	331.70	0.398	1951.62	SOUTH
30-OFC-S	0.445	71.38	0.172	15.52	0.396	86.90	SOUTH
30-OFC-W	0.445	69.32	0.172	15.77	0.394	85.09	SOUTH-WEST
30-OFC-W	0.445	1222.96	0.172	250.78	0.398	1473.75	WEST
30-OFC-W	0.445	72.32	0.172	15.59	0.396	87.91	WEST
30-PLENUM	0.000	0.00	0.172	17.01	0.172	17.01	NORTH
30-PLENUM	0.000	0.00	0.172	379.72	0.172	379.72	NORTH
30-PLENUM	0.000	0.00	0.172	30.03	0.172	30.03	NORTH
30-PLENUM	0.000	0.00	0.172	20.28	0.172	20.28	NORTH-EAST
30-PLENUM	0.000	0.00	0.172	264.97	0.172	264.97	EAST
30-PLENUM	0.000	0.00	0.172	24.71	0.172	24.71	EAST
30-PLENUM	0.000	0.00	0.172	25.72	0.172	25.72	SOUTH-EAST
30-PLENUM	0.000	0.00	0.172	379.96	0.172	379.96	SOUTH
30-PLENUM	0.000	0.00	0.172	16.92	0.172	16.92	SOUTH
30-PLENUM	0.000	0.00	0.172	16.57	0.172	16.57	SOUTH-WEST
30-PLENUM	0.000	0.00	0.172	286.92	0.172	286.92	WEST

30-PLENUM	0.000	0.00	0.172	17.12	0.172	17.12	WEST
31-OFC-N	0.445	144.83	0.172	29.87	0.398	174.70	NORTH
31-OFC-N	0.445	3237.04	0.172	663.72	0.398	3900.76	NORTH
31-OFC-N	0.445	256.07	0.172	52.42	0.398	308.49	NORTH
31-OFC-E	0.445	173.15	0.172	36.12	0.398	209.28	NORTH-EAST
31-OFC-E	0.445	2255.51	0.172	461.68	0.398	2717.20	EAST
31-OFC-E	0.445	205.61	0.172	42.09	0.398	247.70	EAST
31-OFC-S	0.445	219.30	0.172	44.89	0.398	264.19	SOUTH-EAST
31-OFC-S	0.445	3240.04	0.172	663.21	0.398	3903.25	SOUTH
31-OFC-S	0.445	144.26	0.172	29.53	0.398	173.79	SOUTH
31-OFC-W	0.445	141.26	0.172	28.92	0.398	170.18	SOUTH-WEST
31-OFC-W	0.445	2446.49	0.172	501.00	0.398	2947.49	WEST
31-OFC-W	0.445	145.77	0.172	30.06	0.398	175.83	WEST
31-PLENUM	0.000	0.00	0.172	17.01	0.172	17.01	NORTH
31-PLENUM	0.000	0.00	0.172	379.72	0.172	379.72	NORTH
31-PLENUM	0.000	0.00	0.172	30.03	0.172	30.03	NORTH
31-PLENUM	0.000	0.00	0.172	20.37	0.172	20.37	NORTH-EAST
31-PLENUM	0.000	0.00	0.172	264.51	0.172	264.51	EAST
31-PLENUM	0.000	0.00	0.172	24.11	0.172	24.11	EAST
31-PLENUM	0.000	0.00	0.172	25.72	0.172	25.72	SOUTH-EAST
31-PLENUM	0.000	0.00	0.172	379.96	0.172	379.96	SOUTH
31-PLENUM	0.000	0.00	0.172	16.92	0.172	16.92	SOUTH
31-PLENUM	0.000	0.00	0.172	16.57	0.172	16.57	SOUTH-WEST
31-PLENUM	0.000	0.00	0.172	286.92	0.172	286.92	WEST
31-PLENUM	0.000	0.00	0.172	17.12	0.172	17.12	WEST
33-OFC-N	0.445	651.72	0.172	134.42	0.398	786.14	NORTH
33-OFC-N	0.445	14294.84	0.172	2936.19	0.398	17231.03	NORTH
33-OFC-N	0.445	1020.64	0.172	228.24	0.395	1248.88	NORTH
33-OFC-E	0.445	1034.15	0.172	215.75	0.398	1249.89	NORTH-EAST
33-OFC-E	0.445	9984.35	0.172	2043.70	0.398	12028.06	EAST

33-OFC-E	0.445	1056.09	0.172	216.17	0.398	1272.27	EAST
33-OFC-S	0.445	1026.55	0.172	210.12	0.398	1236.67	SOUTH-EAST
33-OFC-S	0.445	14307.50	0.172	2935.73	0.398	17243.23	SOUTH
33-OFC-S	0.445	637.37	0.172	144.70	0.394	782.07	SOUTH
33-OFC-W	0.445	629.77	0.172	136.03	0.396	765.80	SOUTH-WEST
33-OFC-W	0.445	11009.21	0.172	2254.50	0.398	13263.71	WEST
33-OFC-W	0.445	655.94	0.172	135.28	0.398	791.23	WEST
33-PLENUM	0.000	0.00	0.172	16.98	0.172	16.98	NORTH
33-PLENUM	0.000	0.00	0.172	372.75	0.172	372.75	NORTH
33-PLENUM	0.000	0.00	0.172	27.02	0.172	27.02	NORTH
33-PLENUM	0.000	0.00	0.172	27.04	0.172	27.04	NORTH-EAST
33-PLENUM	0.000	0.00	0.172	260.19	0.172	260.19	EAST
33-PLENUM	0.000	0.00	0.172	27.52	0.172	27.52	EAST
33-PLENUM	0.000	0.00	0.172	26.75	0.172	26.75	SOUTH-EAST
33-PLENUM	0.000	0.00	0.172	373.01	0.172	373.01	SOUTH
33-PLENUM	0.000	0.00	0.172	16.92	0.172	16.92	SOUTH
33-PLENUM	0.000	0.00	0.172	16.57	0.172	16.57	SOUTH-WEST
33-PLENUM	0.000	0.00	0.172	286.92	0.172	286.92	WEST
33-PLENUM	0.000	0.00	0.172	17.16	0.172	17.16	WEST
42-OFC-N	0.445	72.41	0.172	14.94	0.398	87.35	NORTH
42-OFC-N	0.445	1509.24	0.172	308.93	0.398	1818.17	NORTH
42-OFC-N	0.445	130.01	0.172	27.52	0.397	157.52	NORTH
42-OFC-E	0.445	121.85	0.172	25.73	0.397	147.58	NORTH-EAST
42-OFC-E	0.445	1063.41	0.172	217.90	0.398	1281.31	EAST
42-OFC-E	0.445	138.07	0.172	28.38	0.398	166.45	EAST
42-OFC-S	0.445	138.92	0.172	30.24	0.396	169.16	SOUTH-EAST
42-OFC-S	0.445	1496.67	0.172	308.73	0.398	1805.40	SOUTH
42-OFC-S	0.445	70.82	0.172	16.08	0.394	86.90	SOUTH
42-OFC-W	0.445	69.97	0.172	15.11	0.396	85.09	SOUTH-WEST

42-OFC-W	0.445	1223.25	0.172	250.50	0.398	1473.75	WEST
42-OFC-W	0.445	72.88	0.172	15.03	0.398	87.91	WEST
42-PLENUM	0.000	0.00	0.172	17.01	0.172	17.01	NORTH
42-PLENUM	0.000	0.00	0.172	353.98	0.172	353.98	NORTH
42-PLENUM	0.000	0.00	0.172	30.67	0.172	30.67	NORTH
42-PLENUM	0.000	0.00	0.172	28.73	0.172	28.73	NORTH-EAST
42-PLENUM	0.000	0.00	0.172	249.46	0.172	249.46	EAST
42-PLENUM	0.000	0.00	0.172	32.41	0.172	32.41	EAST
42-PLENUM	0.000	0.00	0.172	32.93	0.172	32.93	SOUTH-EAST
42-PLENUM	0.000	0.00	0.172	351.49	0.172	351.49	SOUTH
42-PLENUM	0.000	0.00	0.172	16.92	0.172	16.92	SOUTH
42-PLENUM	0.000	0.00	0.172	16.57	0.172	16.57	SOUTH-WEST
42-PLENUM	0.000	0.00	0.172	286.92	0.172	286.92	WEST
42-PLENUM	0.000	0.00	0.172	17.12	0.172	17.12	WEST
43-OFC-N	0.445	651.72	0.172	134.42	0.398	786.14	NORTH
43-OFC-N	0.445	13583.18	0.172	2780.35	0.398	16363.53	NORTH
43-OFC-N	0.445	1170.06	0.172	247.64	0.397	1417.70	NORTH
43-OFC-E	0.445	1157.40	0.172	255.21	0.395	1412.61	NORTH-EAST
43-OFC-E	0.445	9370.62	0.172	2115.38	0.394	11486.00	EAST
43-OFC-E	0.445	1161.62	0.172	237.77	0.398	1399.39	EAST
43-OFC-S	0.445	1251.95	0.172	270.50	0.396	1522.45	SOUTH-EAST
43-OFC-S	0.445	13470.06	0.172	2778.55	0.398	16248.61	SOUTH
43-OFC-S	0.445	637.37	0.172	144.70	0.394	782.07	SOUTH
43-OFC-W	0.445	629.77	0.172	136.03	0.396	765.80	SOUTH-WEST
43-OFC-W	0.445	11009.21	0.172	2254.50	0.398	13263.71	WEST
43-OFC-W	0.445	655.94	0.172	135.28	0.398	791.23	WEST
43-PLENUM	0.000	0.00	0.172	153.05	0.172	153.05	NORTH
43-PLENUM	0.000	0.00	0.172	3185.82	0.172	3185.82	NORTH
43-PLENUM	0.000	0.00	0.172	276.01	0.172	276.01	NORTH
43-PLENUM	0.000	0.00	0.172	275.02	0.172	275.02	NORTH-EAST

43-PLENUM	0.000	0.00	0.172	2236.21	0.172	2236.21	EAST
43-PLENUM	0.000	0.00	0.172	272.45	0.172	272.45	EAST
43-PLENUM	0.000	0.00	0.172	296.41	0.172	296.41	SOUTH-EAST
43-PLENUM	0.000	0.00	0.172	3163.45	0.172	3163.45	SOUTH
43-PLENUM	0.000	0.00	0.172	152.26	0.172	152.26	SOUTH
43-PLENUM	0.000	0.00	0.172	149.09	0.172	149.09	SOUTH-WEST
43-PLENUM	0.000	0.00	0.172	2582.32	0.172	2582.32	WEST
43-PLENUM	0.000	0.00	0.172	154.04	0.172	154.04	WEST
52-OFC-N	0.445	72.41	0.172	14.94	0.398	87.35	NORTH
52-OFC-N	0.445	1395.28	0.172	287.63	0.398	1682.91	NORTH
52-OFC-N	0.445	163.68	0.172	36.56	0.395	200.24	NORTH
52-OFC-E	0.445	166.12	0.172	34.34	0.398	200.46	NORTH-EAST
52-OFC-E	0.445	966.14	0.172	209.40	0.396	1175.54	EAST
52-OFC-E	0.445	167.71	0.172	34.33	0.398	202.04	EAST
52-OFC-S	0.445	165.56	0.172	33.89	0.398	199.44	SOUTH-EAST
52-OFC-S	0.445	1396.87	0.172	286.72	0.398	1683.59	SOUTH
52-OFC-S	0.445	70.82	0.172	16.08	0.394	86.90	SOUTH
52-OFC-W	0.445	69.97	0.172	15.11	0.396	85.09	SOUTH-WEST
52-OFC-W	0.445	1223.25	0.172	250.50	0.398	1473.75	WEST
52-OFC-W	0.445	72.88	0.172	15.03	0.398	87.91	WEST
52-PLENUM	0.000	0.00	0.172	17.01	0.172	17.01	NORTH
52-PLENUM	0.000	0.00	0.172	327.65	0.172	327.65	NORTH
52-PLENUM	0.000	0.00	0.172	38.98	0.172	38.98	NORTH
52-PLENUM	0.000	0.00	0.172	39.03	0.172	39.03	NORTH-EAST
52-PLENUM	0.000	0.00	0.172	228.87	0.172	228.87	EAST
52-PLENUM	0.000	0.00	0.172	39.34	0.172	39.34	EAST
52-PLENUM	0.000	0.00	0.172	38.83	0.172	38.83	SOUTH-EAST
52-PLENUM	0.000	0.00	0.172	327.78	0.172	327.78	SOUTH
52-PLENUM	0.000	0.00	0.172	16.92	0.172	16.92	SOUTH

52-PLENUM	0.000	0.00	0.172	16.57	0.172	16.57	SOUTH-WEST
52-PLENUM	0.000	0.00	0.172	286.92	0.172	286.92	WEST
52-PLENUM	0.000	0.00	0.172	17.12	0.172	17.12	WEST
53-OFC-N	0.445	144.83	0.172	29.87	0.398	174.70	NORTH
53-OFC-N	0.445	2790.55	0.172	575.27	0.398	3365.82	NORTH
53-OFC-N	0.445	327.17	0.172	67.65	0.398	394.82	NORTH
53-OFC-E	0.445	329.05	0.172	67.81	0.398	396.86	NORTH-EAST
53-OFC-E	0.445	1913.52	0.172	421.06	0.395	2334.58	EAST
53-OFC-E	0.445	331.68	0.172	68.34	0.398	400.02	EAST
53-OFC-S	0.445	326.24	0.172	68.13	0.398	394.37	SOUTH-EAST
53-OFC-S	0.445	2793.74	0.172	573.43	0.398	3367.17	SOUTH
53-OFC-S	0.445	141.64	0.172	32.16	0.394	173.79	SOUTH
53-OFC-W	0.445	139.95	0.172	30.23	0.396	170.18	SOUTH-WEST
53-OFC-W	0.445	2446.49	0.172	501.00	0.398	2947.49	WEST
53-OFC-W	0.445	145.77	0.172	30.06	0.398	175.83	WEST
53-PLENUM	0.000	0.00	0.172	34.01	0.172	34.01	NORTH
53-PLENUM	0.000	0.00	0.172	655.29	0.172	655.29	NORTH
53-PLENUM	0.000	0.00	0.172	76.87	0.172	76.87	NORTH
53-PLENUM	0.000	0.00	0.172	77.26	0.172	77.26	NORTH-EAST
53-PLENUM	0.000	0.00	0.172	454.52	0.172	454.52	EAST
53-PLENUM	0.000	0.00	0.172	77.88	0.172	77.88	EAST
53-PLENUM	0.000	0.00	0.172	76.78	0.172	76.78	SOUTH-EAST
53-PLENUM	0.000	0.00	0.172	655.56	0.172	655.56	SOUTH
53-PLENUM	0.000	0.00	0.172	33.84	0.172	33.84	SOUTH
53-PLENUM	0.000	0.00	0.172	33.13	0.172	33.13	SOUTH-WEST
53-PLENUM	0.000	0.00	0.172	573.85	0.172	573.85	WEST
53-PLENUM	0.000	0.00	0.172	34.23	0.172	34.23	WEST
55-OFC-N	0.445	506.90	0.172	104.55	0.398	611.44	NORTH
55-OFC-N	0.445	9560.10	0.172	1959.24	0.398	11519.33	NORTH
55-OFC-N	0.445	1165.47	0.172	257.54	0.395	1423.01	NORTH

55-OFC-E	0.445	1210.77	0.172	249.42	0.398	1460.19	NORTH-EAST
55-OFC-E	0.445	6722.27	0.172	1379.15	0.398	8101.42	EAST
55-OFC-E	0.445	1208.80	0.172	249.80	0.398	1458.60	EAST
55-OFC-S	0.445	1230.47	0.172	265.31	0.396	1495.78	SOUTH-EAST
55-OFC-S	0.445	9548.93	0.172	1979.10	0.398	11528.03	SOUTH
55-OFC-S	0.445	495.73	0.172	112.55	0.394	608.28	SOUTH
55-OFC-W	0.445	489.82	0.172	105.80	0.396	595.62	SOUTH-WEST
55-OFC-W	0.445	8562.72	0.172	1753.50	0.398	10316.22	WEST
55-OFC-W	0.445	510.18	0.172	105.22	0.398	615.40	WEST
55-PLENUM	0.000	0.00	0.172	119.04	0.172	119.04	NORTH
55-PLENUM	0.000	0.00	0.172	2242.70	0.172	2242.70	NORTH
55-PLENUM	0.000	0.00	0.172	277.05	0.172	277.05	NORTH
55-PLENUM	0.000	0.00	0.172	284.13	0.172	284.13	NORTH-EAST
55-PLENUM	0.000	0.00	0.172	1577.42	0.172	1577.42	EAST
55-PLENUM	0.000	0.00	0.172	283.98	0.172	283.98	EAST
55-PLENUM	0.000	0.00	0.172	291.21	0.172	291.21	SOUTH-EAST
55-PLENUM	0.000	0.00	0.172	2244.40	0.172	2244.40	SOUTH
55-PLENUM	0.000	0.00	0.172	118.43	0.172	118.43	SOUTH
55-PLENUM	0.000	0.00	0.172	115.96	0.172	115.96	SOUTH-WEST
55-PLENUM	0.000	0.00	0.172	2008.47	0.172	2008.47	WEST
55-PLENUM	0.000	0.00	0.172	119.81	0.172	119.81	WEST
62-OFC-N	0.445	72.41	0.172	14.94	0.398	87.35	NORTH
62-OFC-N	0.445	1315.17	0.172	269.54	0.398	1584.71	NORTH
62-OFC-N	0.445	190.04	0.172	39.01	0.398	229.05	NORTH
62-OFC-E	0.445	185.72	0.172	38.02	0.398	223.74	NORTH-EAST
62-OFC-E	0.445	909.86	0.172	199.01	0.396	1108.87	EAST
62-OFC-E	0.445	160.49	0.172	33.76	0.397	194.25	EAST
62-OFC-S	0.445	211.89	0.172	44.50	0.397	256.40	SOUTH-EAST
62-OFC-S	0.445	1315.55	0.172	270.18	0.398	1585.73	SOUTH

62-OFC-S	0.445	70.82	0.172	16.08	0.394	86.90	SOUTH
62-OFC-W	0.445	69.97	0.172	15.11	0.396	85.09	SOUTH-WEST
62-OFC-W	0.445	1223.25	0.172	250.50	0.398	1473.75	WEST
62-OFC-W	0.445	72.88	0.172	15.03	0.398	87.91	WEST
62-PLENUM	0.000	0.00	0.172	17.01	0.172	17.01	NORTH
62-PLENUM	0.000	0.00	0.172	308.53	0.172	308.53	NORTH
62-PLENUM	0.000	0.00	0.172	44.59	0.172	44.59	NORTH
62-PLENUM	0.000	0.00	0.172	43.56	0.172	43.56	NORTH-EAST
62-PLENUM	0.000	0.00	0.172	215.89	0.172	215.89	EAST
62-PLENUM	0.000	0.00	0.172	37.82	0.172	37.82	EAST
62-PLENUM	0.000	0.00	0.172	49.92	0.172	49.92	SOUTH-EAST
62-PLENUM	0.000	0.00	0.172	308.73	0.172	308.73	SOUTH
62-PLENUM	0.000	0.00	0.172	16.92	0.172	16.92	SOUTH
62-PLENUM	0.000	0.00	0.172	16.57	0.172	16.57	SOUTH-WEST
62-PLENUM	0.000	0.00	0.172	286.92	0.172	286.92	WEST
62-PLENUM	0.000	0.00	0.172	17.12	0.172	17.12	WEST
63-OFC-N	0.445	362.07	0.172	74.68	0.398	436.74	NORTH
63-OFC-N	0.445	6373.24	0.172	1305.67	0.398	7678.91	NORTH
63-OFC-N	0.445	1071.20	0.172	219.83	0.398	1291.02	NORTH
63-OFC-E	0.445	913.61	0.172	187.57	0.398	1101.19	NORTH-EAST
63-OFC-E	0.445	4408.60	0.172	963.98	0.396	5372.58	EAST
63-OFC-E	0.445	945.97	0.172	195.33	0.398	1141.30	EAST
63-OFC-S	0.445	1032.74	0.172	221.00	0.397	1253.74	SOUTH-EAST
63-OFC-S	0.445	6374.65	0.172	1309.35	0.398	7684.00	SOUTH
63-OFC-S	0.445	354.10	0.172	80.39	0.394	434.49	SOUTH
63-OFC-W	0.445	349.87	0.172	75.57	0.396	425.45	SOUTH-WEST
63-OFC-W	0.445	6116.23	0.172	1252.50	0.398	7368.73	WEST
63-OFC-W	0.445	364.41	0.172	75.16	0.398	439.57	WEST
63-PLENUM	0.000	0.00	0.172	85.03	0.172	85.03	NORTH
63-PLENUM	0.000	0.00	0.172	1495.01	0.172	1495.01	NORTH

63-PLENUM	0.000	0.00	0.172	251.35	0.172	251.35	NORTH
63-PLENUM	0.000	0.00	0.172	214.39	0.172	214.39	NORTH-EAST
63-PLENUM	0.000	0.00	0.172	1045.99	0.172	1045.99	EAST
63-PLENUM	0.000	0.00	0.172	222.20	0.172	222.20	EAST
63-PLENUM	0.000	0.00	0.172	244.09	0.172	244.09	SOUTH-EAST
63-PLENUM	0.000	0.00	0.172	1496.00	0.172	1496.00	SOUTH
63-PLENUM	0.000	0.00	0.172	84.59	0.172	84.59	SOUTH
63-PLENUM	0.000	0.00	0.172	82.83	0.172	82.83	SOUTH-WEST
63-PLENUM	0.000	0.00	0.172	1434.62	0.172	1434.62	WEST
63-PLENUM	0.000	0.00	0.172	85.58	0.172	85.58	WEST
68-MECH	1.437	130.34	0.172	31.99	1.188	162.33	NORTH
68-MECH	1.437	2230.38	0.172	546.03	1.189	2776.41	NORTH
68-MECH	1.437	799.18	0.124	209.52	1.165	1008.70	NORTH
68-MECH	1.437	414.00	0.172	102.18	1.187	516.18	NORTH
68-MECH	1.437	325.69	0.172	80.45	1.187	406.14	NORTH-EAST
68-MECH	1.437	124.77	0.172	31.47	1.183	156.24	EAST
68-MECH	1.437	1266.30	0.172	342.09	1.168	1608.39	EAST
68-MECH	1.437	118.19	0.172	46.24	1.082	164.43	EAST
68-MECH	1.437	292.66	0.124	80.16	1.155	372.82	EAST
68-MECH	1.437	327.04	0.172	83.30	1.181	410.34	EAST
68-MECH	1.437	421.59	0.172	106.98	1.181	528.57	SOUTH-EAST
68-MECH	1.437	2213.66	0.172	550.15	1.186	2763.81	SOUTH
68-MECH	1.437	934.25	0.124	248.89	1.161	1183.14	SOUTH
68-MECH	1.437	127.47	0.172	34.02	1.171	161.49	SOUTH
68-MECH	1.437	125.95	0.172	32.18	1.180	158.13	SOUTH-WEST
68-MECH	1.437	281.40	0.124	91.56	1.115	372.96	SOUTH-WEST
68-MECH	1.437	270.14	0.124	78.88	1.141	349.02	WEST
68-MECH	1.437	2201.84	0.172	536.98	1.189	2738.82	WEST
68-MECH	1.437	131.19	0.172	32.19	1.188	163.38	WEST

68-MECH	0.000	0.00	0.034	453.61	0.034	453.61	ROOF
68-MECH	0.000	0.00	0.034	75.51	0.034	75.51	ROOF
68-MECH	0.000	0.00	0.034	760.75	0.034	760.75	ROOF
68-MECH	0.000	0.00	0.034	2513.97	0.034	2513.97	ROOF
68-MECH	0.000	0.00	0.034	2409.52	0.034	2409.52	ROOF
68-MECH	0.000	0.00	0.034	2524.80	0.034	2524.80	ROOF
68-MECH	0.000	0.00	0.034	866.23	0.034	866.23	ROOF
68-MECH	0.000	0.00	0.034	414.36	0.034	414.36	ROOF
68-MECH	0.000	0.00	0.034	1347.22	0.034	1347.22	ROOF
68-MECH	0.000	0.00	0.034	2250.50	0.034	2250.50	ROOF
68-MECH	0.000	0.00	0.034	346.63	0.034	346.63	ROOF
68-MECH	0.000	0.00	0.034	134.37	0.034	134.37	ROOF
68-STORAGE	0.000	0.00	0.034	340.58	0.034	340.58	ROOF
68-STAIR	0.000	0.00	0.034	322.09	0.034	322.09	ROOF
68-CORR	0.000	0.00	0.034	197.14	0.034	197.14	ROOF
68-CORR	0.000	0.00	0.034	159.05	0.034	159.05	ROOF
68-CORR	0.000	0.00	0.034	504.48	0.034	504.48	ROOF
68-ELEC	0.000	0.00	0.034	322.92	0.034	322.92	ROOF
69-CORR	1.437	22.51	0.124	89.49	0.388	112.00	NORTH
69-STORAGE	1.437	135.07	0.124	46.23	1.103	181.30	NORTH
69-STORAGE	1.437	427.73	0.124	115.05	1.159	542.78	EAST
69-WORKSHOP	1.437	720.38	0.124	182.90	1.171	903.28	EAST
69-CORR	0.445	22.51	0.124	96.07	0.185	118.58	SOUTH
69-CORR	0.445	675.36	0.124	421.82	0.321	1097.18	WEST
69-CORR	0.000	0.00	0.034	464.30	0.034	464.30	ROOF
69-OFC	0.000	0.00	0.034	183.61	0.034	183.61	ROOF
69-BMS	0.000	0.00	0.034	263.59	0.034	263.59	ROOF
69-LOCKERS	0.000	0.00	0.034	984.49	0.034	984.49	ROOF
69-CORR	0.000	0.00	0.034	448.94	0.034	448.94	ROOF
69-CORR	0.000	0.00	0.034	691.29	0.034	691.29	ROOF

69-STORAGE	0.000	0.00	0.034	342.01	0.034	342.01	ROOF
69-STORAGE	0.000	0.00	0.034	222.72	0.034	222.72	ROOF
69-CORR	0.000	0.00	0.034	124.20	0.034	124.20	ROOF
69-WORKSHOP	0.000	0.00	0.034	1160.71	0.034	1160.71	ROOF
RF-EMR	0.000	0.00	0.124	522.55	0.124	522.55	NORTH
RF-CORR	0.445	20.94	0.124	154.06	0.162	175.00	NORTH
RF-EMR	0.000	0.00	0.124	537.08	0.124	537.08	EAST
RF-STAIR	0.000	0.00	0.124	355.25	0.124	355.25	EAST
RF-STORAGE	0.000	0.00	0.124	613.20	0.124	613.20	SOUTH
RF-CORR	0.445	21.91	0.124	332.29	0.144	354.20	SOUTH
RF-STAIR	0.000	0.00	0.124	168.00	0.124	168.00	SOUTH
RF-STORAGE	0.000	0.00	0.124	442.92	0.124	442.92	WEST
RF-EMR	0.000	0.00	0.034	916.40	0.034	916.40	ROOF
RF-STORAGE	0.000	0.00	0.034	886.16	0.034	886.16	ROOF
RF-CORR	0.000	0.00	0.034	637.56	0.034	637.56	ROOF
RF-STAIR	0.000	0.00	0.034	195.26	0.034	195.26	ROOF
RF2-EMR	0.000	0.00	0.124	142.31	0.124	142.31	NORTH
RF2-STAIR	0.000	0.00	0.124	118.32	0.124	118.32	NORTH
RF2-STAIR	0.000	0.00	0.124	436.28	0.124	436.28	EAST
RF2-EMR	0.000	0.00	0.124	297.04	0.124	297.04	SOUTH
RF2-STAIR	0.000	0.00	0.124	118.32	0.124	118.32	SOUTH
RF2-EMR	0.000	0.00	0.124	436.16	0.124	436.16	WEST
RF2-EMR	0.000	0.00	0.034	754.15	0.034	754.15	ROOF
RF2-EMR	0.000	0.00	0.034	82.96	0.034	82.96	ROOF
RF2-STAIR	0.000	0.00	0.034	369.47	0.034	369.47	ROOF

1 DOE 2.1E	MANHATTAN WEST	DOE-2.1E-121	Thu Jan 29 18:20:22 2015	SDL RUN	1
Alnp1: 1200 kw:250 TR	SIM: VIRIDIAN ENERGY & ENVIRONMENTAL				
REPORT- LV-D	DETAILS OF EXTERIOR SURFACES IN THE PROJECT		WEATHER FILE-	NEW YORK CENTRAL	NY
----- (CONTINUED) -----					

AVERAGE	AVERAGE	AVERAGE U-VALUE	WINDOW	WALL	WINDOW+WALL
---------	---------	-----------------	--------	------	-------------

	U-VALUE/WINDOWS (BTU/HR-SQFT-F)	U-VALUE/WALLS (BTU/HR-SQFT-F)	WALLS+WINDOWS (BTU/HR-SQFT-F)	AREA (SQFT)	AREA (SQFT)	AREA (SQFT)
NORTH	0.550	0.167	0.428	124631.0	57700.9	182331.8
NORTH-EAST	0.512	0.172	0.409	7880.5	3411.8	11292.3
EAST	0.532	0.177	0.418	85347.1	40178.6	125525.7
SOUTH-EAST	0.518	0.172	0.412	8495.4	3720.7	12216.2
SOUTH	0.553	0.167	0.433	117386.0	52504.7	169890.7
SOUTH-WEST	0.617	0.170	0.471	5266.7	2552.2	7818.9
WEST	0.478	0.159	0.357	81927.2	50431.4	132358.7
FLOOR	0.000	0.172	0.172	0.0	985.5	985.5
ROOF	0.000	0.034	0.034	0.0	108112.5	108112.5
ALL WALLS	0.533	0.167	0.413	430934.0	210500.3	641434.3
WALLS+ROOFS	0.533	0.122	0.358	430934.0	318612.7	749546.8
UNDERGRND	0.000	0.240	0.240	0.0	131802.5	131802.5
BUILDING	0.533	0.156	0.340	430934.0	450415.2	881349.2

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Mon Apr 27 10:55:37 2015LDL RUN 1
BaseC: DESIGN CASE SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L
REPORT- LV-I DETAILS OF CONSTRUCTIONS OCCURRING IN THE PROJECT WEATHER FILE- NEW YORK CENTRAL NY

NUMBER OF CONSTRUCTIONS 13 DELAYED 12 QUICK 1

CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)	SURFACE ABSORPTANCE	SURFACE ROUGHNESS INDEX	SURFACE TYPE	NUMBER OF RESPONSE FACTORS
CL-CON	0.805	0.70	3	DELAYED	4
CL-ADIAB-CON	0.805	0.70	3	DELAYED	4
IW-CON	0.355	0.70	3	DELAYED	4
IW-ADIAB-CON	0.355	0.70	3	DELAYED	4
FL-CON	0.423	0.70	3	DELAYED	5
FL-ADIAB-CON	0.423	0.70	3	DELAYED	5
EW-CON	0.185	0.70	3	DELAYED	5
EW-1-CON	0.185	0.70	3	DELAYED	5
EW-STOREFT-CON	0.890	0.70	3	QUICK	0
EW-BASEMENT-CON	0.131	0.70	3	DELAYED	10
RF-CON	0.034	0.70	3	DELAYED	15
SLAB-ON-GRADE	0.234	0.70	3	DELAYED	74
UW-CON	0.234	0.70	3	DELAYED	74

REPORT- PS-C

EQUIPMENT PART LOAD OPERATION

WEATHER FILE- NEW YORK CENTRAL NY

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO												TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (KWH)	THERMAL USED (MBTU)
	0 --	10 --	20 --	30 --	40 --	50 --	60 --	70 --	80 --	90 --	100 -	110+					
HW-BOILER	429	508	1019	490	138	37	5	3	2	0	0		2631	38248.5	0.0	0.	38248.5
	429	508	1019	490	138	37	5	3	2	0	0						
ELEC-DHW-HEATER	5880	2880	0	0	0	0	0	0	0	0	0		8760	2286.7	0.0	881739.	0.0
	5880	2880	0	0	0	0	0	0	0	0	0						
OPEN-REC-CHLR	37	9	18	4	0	0	0	0	0	0	0		68	35.8	8.7	1579.	0.0
	37	9	18	4	0	0	0	0	0	0	0						
ABSOR1-CHLR	1826	472	504	564	126	16	0	0	0	0	0		3508	2123.5	0.0	8251.	3081.1
	1826	472	504	564	126	16	0	0	0	0	0						
COOLING-TWR	6900	767	413	247	230	168	34	1	0	0	0		8760	6788.9	0.0	174455.	0.0
	6960	737	403	230	227	168	34	1	0	0	0						
GTURB-GEN	0	0	0	0	0	0	0	0	0	8760	0		8760	29808.5	0.0	0.	99330.2
	0	0	0	0	0	0	0	0	0	8760	0						

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 173973. KWH
COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 21561. KWH
CONDENSER WATER PUMP ELECTRICAL USE = 100464. KWH
TOWER OR CONDENSER FAN ELECTRICAL USE = 73990. KWH

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

1 DOE 2.1E
Alnpl: 1200 kW:250 TR

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:07:01 2015PDL RUN 1

REPORT- PS-D

PLANT LOADS SATISFIED

WEATHER FILE- NEW YORK CENTRAL NY

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	38248.5	68.1
ELEC-DHW-HEATER	2286.7	4.1
GTURB-GEN	15603.6	27.8
	=====	=====
LOAD SATISFIED	56138.8	100.0
TOTAL LOAD ON PLANT	56138.9	

COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
OPEN-REC-CHLR	35.8	1.1
ABSOR1-CHLR	2123.5	63.5
COOLING-TWR	1187.1	35.5
	=====	=====
LOAD SATISFIED	3346.3	100.0
TOTAL LOAD ON PLANT	3346.3	

ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
GTURB-GEN	8733889.0	28.6
ELECTRICITY	21785686.0	71.4
	=====	=====
LOAD SATISFIED	30519576.0	100.0
TOTAL LOAD ON PLANT	30519542.0	

TOWER ABOVE DESIGN TEMPERATURE OF 88.F 0 HOURS

1 DOE 2.1E
Alnpl: 1200 kW:250 TR

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:07:01 2015PDL RUN 1

REPORT- PS-D PLANT LOADS SATISFIED

WEATHER FILE- NEW YORK CENTRAL NY

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
-----	-----	-----	-----	-----	-----
HEATING LOADS	56138.9	56138.8	0.000	0.000	0
COOLING LOADS	3346.3	3346.3	0.000	0.000	0
ELECTRICAL LOADS	104162.3	104162.4	0.000	0.000	0

1 DOE 2.1E
Alnpl: 1200 kW:250 TR

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:07:01 2015PDL RUN 1

REPORT- PS-E MONTHLY ENERGY END-USE SUMMARY

WEATHER FILE- NEW YORK CENTRAL NY

OELECTRICAL END-USES IN KWH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 AREA LIGHTS	696250.	641409.	736935.	709590.	695989.	709535.	709803.	722987.	695789.	696109.	682170.	709464.	8406031.
MAX KW	1517.1	1517.1	1513.8	1512.3	1512.3	1512.3	1512.3	1512.3	1512.3	1513.0	1517.1	1517.1	1517.1
DAY/HR	4/18	2/18	1/18	1/10	3/10	1/10	1/10	2/10	1/10	29/18	1/18	1/18	
0MISC EQUIPMT	775476.	707679.	801056.	773169.	775476.	773169.	785193.	791340.	763453.	775476.	753737.	781624.	9256847.
MAX KW	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0
DAY/HR	4/10	1/10	1/10	1/10	3/10	1/10	1/10	2/10	1/10	1/10	1/10	1/10	
0 SPACE COOL	89421.	123381.	230027.	212852.	312219.	517668.	666318.	593557.	411682.	208193.	216267.	113630.	3695214.
MAX KW	1086.5	1291.0	1671.3	2276.8	1756.9	1780.3	2247.8	2775.3	1805.6	1213.1	1417.1	1108.2	2775.3
DAY/HR	19/14	23/14	16/13	28/ 4	28/17	2/16	13/16	17/16	3/16	1/15	18/13	16/15	
0 HEAT REJECT	31.	316.	2598.	5554.	19000.	29030.	42369.	37729.	26517.	8998.	2257.	56.	174454.
MAX KW	2.3	40.5	40.5	82.1	82.1	82.1	82.1	82.1	82.1	43.3	40.5	5.8	82.1
DAY/HR	26/14	2/10	15/19	28/11	12/12	2/12	1/10	2/10	2/13	18/14	6/16	14/22	
0PUMPS & MISC	262164.	279330.	368372.	142284.	126160.	99037.	118816.	111923.	92868.	150647.	312978.	308235.	2372815.
MAX KW	1099.6	1092.2	1125.4	1074.8	1042.9	307.3	401.0	514.8	591.1	674.6	1086.0	1097.2	1125.4
DAY/HR	18/13	6/13	16/14	8/ 9	6/ 8	22/15	13/16	17/16	20/ 5	30/12	18/ 9	11/13	
0 VENT FANS	406460.	372846.	426607.	406418.	377908.	418735.	433558.	430714.	391561.	381231.	379301.	409558.	4834897.
MAX KW	1018.7	1019.1	1026.8	1073.2	1166.5	1199.7	1226.8	1281.2	1149.5	1050.1	1024.5	1018.7	1281.2
DAY/HR	27/10	2/10	16/13	28/18	10/17	22/16	21/18	17/16	7/17	1/17	2/10	15/10	
0DOMHOT WATER	80812.	75201.	83454.	79639.	77634.	70644.	68979.	66432.	64080.	68287.	69874.	76698.	881733.
MAX KW	108.6	111.9	112.2	110.6	104.3	98.1	92.7	89.3	89.0	91.8	97.0	103.1	112.2
DAY/HR	1/ 1	1/ 1	1/ 1	1/ 1	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 1	1/ 1	
0 EXT LIGHTS	3302.	2762.	2996.	2899.	2802.	2472.	2690.	2939.	2899.	2996.	3084.	3439.	35280.
MAX KW	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
DAY/HR	1/ 1	1/ 1	1/ 1	1/ 1	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 1	1/ 1	
0 EXT MISC	71859.	65843.	75136.	72448.	71859.	72448.	72883.	74112.	71219.	71859.	69990.	72678.	862336.
MAX KW	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8
DAY/HR	4/ 7	1/ 7	1/ 7	1/ 7	3/ 7	1/ 7	1/ 7	2/ 7	1/ 7	1/ 7	1/ 7	1/ 7	
0 TOTAL KWH	2385775.	2268767.	2727179.	2404853.	2459048.	2692738.	2900608.	2831734.	2520068.	2363797.	2489658.	2475382.	30519604.

OFUEL END-USES IN MBTU

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 SPACE HEAT	9376.9	6961.9	5850.2	2003.8	490.0	0.0	0.0	0.0	11.4	1308.8	4615.4	7630.1	38248.5
MAX MBTU	54.692	37.225	26.110	20.226	14.748	0.000	0.000	0.000	11.377	20.737	28.364	38.765	54.692
DAY/HR	23/ 8	6/ 8	1/ 8	8/ 9	4/22	0/ 0	0/ 0	0/ 0	20/ 8	23/14	27/ 8	27/ 5	
0 TOTAL MBTU	9376.9	6961.9	5850.2	2003.8	490.0	0.0	0.0	0.0	11.4	1308.8	4615.4	7630.1	38248.5

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO												TOTAL	ANNUAL	FALSE	ELEC	THERMAL
	0 --	10 --	20 --	30 --	40 --	50 --	60 --	70 --	80 --	90 --	100 -	110+	HOURS	LOAD	LOAD	USED	USED
														(MBTU)	(MBTU)	(KWH)	(MBTU)
HW-BOILER	1909	818	583	363	183	91	22	9	3	0	1		3982	674.3	0.0	0.	674.3
	1909	818	583	363	183	91	22	9	3	0	1						
DHW-HEATER	8760	0	0	0	0	0	0	0	0	0	0		8760	254.0	0.0	0.	254.0
	8760	0	0	0	0	0	0	0	0	0	0						

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 2383. KWH
COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 0. KWH
CONDENSER WATER PUMP ELECTRICAL USE = 0. KWH
TOWER OR CONDENSER FAN ELECTRICAL USE = 0. KWH

NOTES TO TABLE
1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY

2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS
THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

1 DOE 2.1E
Alnpl: 1200 kW:250 TR

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:07:01 2015PDL RUN 2

REPORT- PS-D

PLANT LOADS SATISFIED

WEATHER FILE- NEW YORK CENTRAL NY

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	674.3	72.6
DHW-HEATER	254.0	27.4
	=====	=====
LOAD SATISFIED	928.4	100.0
TOTAL LOAD ON PLANT	928.4	

ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	598268.3	100.0
	=====	=====
LOAD SATISFIED	598268.3	100.0
TOTAL LOAD ON PLANT	598264.9	

1 DOE 2.1E
Alnpl: 1200 kW:250 TR

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:07:01 2015PDL RUN 2

REPORT- PS-D PLANT LOADS SATISFIED

WEATHER FILE- NEW YORK CENTRAL NY

----- (CONTINUED) -----

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
-----	-----	-----	-----	-----	-----
HEATING LOADS	928.4	928.4	0.000	0.000	0
ELECTRICAL LOADS	2041.9	2041.9	0.000	0.000	0

1 DOE 2.1E
Alnpl: 1200 kW:250 TR

MANHATTAN WEST
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:07:01 2015PDL RUN 2

REPORT- PS-E

MONTHLY ENERGY END-USE SUMMARY

WEATHER FILE- NEW YORK CENTRAL NY

OELECTRICAL END-USES IN KWH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 AREA LIGHTS	18505.	16714.	18505.	17908.	18505.	17908.	18505.	18505.	17908.	18505.	17908.	18505.	217886.
MAX KW	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
DAY/HR	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	
0MISC EQUIPMT	5508.	4975.	5508.	5330.	5508.	5330.	5508.	5508.	5330.	5508.	5330.	5508.	64847.
MAX KW	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
DAY/HR	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	
0 SPACE COOL	9022.	9126.	13426.	15397.	27733.	30658.	38436.	35827.	29666.	22123.	12324.	8696.	252434.
MAX KW	49.0	51.0	73.8	95.7	142.9	99.1	147.0	156.9	110.7	88.2	63.7	49.0	156.9
DAY/HR	1/ 6	23/13	13/16	28/14	30/14	27/14	24/15	17/15	4/14	17/14	6/14	1/ 6	
0PUMPS & MISC	465.	377.	334.	230.	133.	0.	0.	0.	0.	261.	333.	416.	2550.
MAX KW	1.9	1.4	1.5	0.7	0.6	0.0	0.0	0.0	0.1	0.6	1.0	1.3	1.9
DAY/HR	23/ 6	7/ 6	7/ 6	18/ 6	1/ 6	0/ 0	0/ 0	0/ 0	20/ 2	26/ 6	27/ 9	11/ 6	
0 VENT FANS	4827.	4363.	4775.	4329.	4993.	5062.	6037.	6026.	5547.	5221.	4687.	4686.	60552.
MAX KW	14.4	18.8	17.3	18.2	24.1	19.3	24.8	28.2	25.3	25.3	22.8	15.8	28.2
DAY/HR	19/14	18/14	15/13	28/14	30/14	22/15	25/16	17/15	4/14	9/15	2/14	24/14	
0DOMHOT WATER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MAX KW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	1/ 1	1/ 1	1/ 1	1/ 1	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 1	1/ 1	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
0 TOTAL KWH	38327.	35555.	42548.	43195.	56871.	58958.	68485.	65866.	58452.	51618.	40583.	37811.	598269.

0FUEL END-USES IN MBTU

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 SPACE HEAT	197.6	122.4	70.5	31.1	12.9	0.0	0.0	0.0	0.0	26.5	61.0	152.3	674.3
MAX MBTU	1.082	0.792	0.817	0.370	0.241	0.000	0.000	0.000	0.000	0.337	0.556	0.751	1.082
DAY/HR	23/ 6	7/ 6	7/ 6	18/ 6	5/ 6	0/ 0	0/ 0	0/ 0	0/ 0	26/ 6	27/ 9	11/ 6	
0DOMHOT WATER	23.8	22.4	24.8	23.6	22.6	20.2	19.3	18.4	17.7	19.1	19.9	22.3	254.1
MAX MBTU	0.032	0.033	0.033	0.033	0.030	0.028	0.026	0.025	0.025	0.026	0.028	0.030	0.033
DAY/HR	1/ 1	1/ 1	1/ 1	1/ 1	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 1	1/ 1	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
0 TOTAL MBTU	221.4	144.7	95.3	54.7	35.5	20.2	19.3	18.4	17.7	45.6	80.9	174.5	928.4

REPORT- PV-A

EQUIPMENT SIZES

WEATHER FILE- NEW YORK CENTRAL NY

[illegible]

REPORT- PV-A

EQUIPMENT SIZES

WEATHER FILE- NEW YORK CENTRAL NY

[illegible]

CODE BASELINE

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015PDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- BEPS BUILDING ENERGY PERFORMANCE SUMMARY WEATHER FILE- NEW YORK CENTRAL NY

ENERGY TYPE:	ELECTRICITY	NATURAL-GAS	FUEL-OIL
UNITS: MBTU			
CATEGORY OF USE			

AREA LIGHTS	35187.0	0.0	0.0
MISC EQUIPMT	31592.3	0.0	0.0
SPACE HEAT	0.0	0.1	44300.1
SPACE COOL	10254.8	10589.3	0.0
HEAT REJECT	5703.6	0.0	0.0
PUMPS & MISC	2421.5	0.0	0.0
VENT FANS	13799.2	0.0	0.0
DOMHOT WATER	2909.0	0.0	0.0
EXT LIGHTS	120.4	0.0	0.0
EXT MISC	2943.1	0.0	0.0
	-----	-----	-----
TOTAL	104930.8	10589.3	44300.1

TOTAL SITE ENERGY 159820.28 MBTU 75.0 KBTU/SQFT-YR GROSS-AREA 75.0 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY 369713.47 MBTU 173.5 KBTU/SQFT-YR GROSS-AREA 173.5 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.8
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- BEPU BUILDING ENERGY PERFORMANCE SUMMARY (UTILITY UNITS)

WEATHER FILE- NEW YORK CENTRAL NY

ENERGY TYPE: SITE UNITS:	ELECTRICITY KWH	NATURAL-GAS THERM	FUEL-OIL MMBTU
CATEGORY OF USE -----			
AREA LIGHTS	10309792.	0.	0.
MISC EQUIPMT	9256551.	0.	0.
SPACE HEAT	0.	1.	48681.
SPACE COOL	3004644.	105893.	0.
HEAT REJECT	1671141.	0.	0.
PUMPS & MISC	709502.	0.	0.
VENT FANS	4043159.	0.	0.
DOMHOT WATER	852341.	0.	0.
EXT LIGHTS	35280.	0.	0.
EXT MISC	862320.	0.	0.
	-----	-----	-----
TOTAL	30744734.	105893.	48681.

TOTAL ELECTRICITY	30744734. KWH	14.425 KWH	/SQFT-YR GROSS-AREA	14.425 KWH	/SQFT-YR NET-AREA
TOTAL NATURAL-GAS	105893. THERM	0.050 THERM	/SQFT-YR GROSS-AREA	0.050 THERM	/SQFT-YR NET-AREA
TOTAL FUEL-OIL	48681. MMBTU	0.023 MMBTU	/SQFT-YR GROSS-AREA	0.023 MMBTU	/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.8
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- ES-D ENERGY COST SUMMARY

UTILITY-RATE	RESOURCE	METERS	METERED ENERGY UNITS/YR	TOTAL CHARGE (\$)	VIRTUAL RATE (\$/UNIT)	RATE USED ALL YEAR?
-----	-----	-----	-----	-----	-----	-----
OSC9-ELEC-TARIFF	ELECTRICITY	1 2 3 4 5	30745132. KWH	6254997.	0.2034	YES
OSC2-II-GAS-TARIF	NATURAL-GAS	4	105893. THERM	106590.	1.0066	YES
ODES-STM-RATE	FUEL-OIL	1 2	48681. MMBTU	1076313.	22.1093	YES
0				=====		
0				7437900.		

ENERGY COST/GROSS BLDG AREA: 3.49
ENERGY COST/NET BLDG AREA: 3.49

ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- BEPS BUILDING ENERGY PERFORMANCE SUMMARY

WEATHER FILE- NEW YORK CENTRAL NY

ENERGY TYPE:	ELECTRICITY	FUEL-OIL
UNITS: MBTU		
CATEGORY OF USE		

AREA LIGHTS	743.6	0.0
MISC EQUIPMT	221.3	0.0
SPACE HEAT	0.0	423.4
SPACE COOL	382.0	0.0
PUMPS & MISC	5.1	0.0
VENT FANS	106.9	0.0
DOMHOT WATER	0.0	242.9
	-----	-----
TOTAL	1459.0	666.3

TOTAL SITE ENERGY	2125.32 MBTU	1.0 KBTU/SQFT-YR GROSS-AREA	1.0 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	5043.79 MBTU	2.4 KBTU/SQFT-YR GROSS-AREA	2.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE	=	0.0
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED	=	0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- BEPU BUILDING ENERGY PERFORMANCE SUMMARY (UTILITY UNITS)

WEATHER FILE- NEW YORK CENTRAL NY

ENERGY TYPE: SITE UNITS:	ELECTRICITY KWH	FUEL-OIL MMBTU
CATEGORY OF USE -----		
AREA LIGHTS	217869.	0.
MISC EQUIPMT	64847.	0.
SPACE HEAT	0.	465.
SPACE COOL	111940.	0.
PUMPS & MISC	1506.	0.
VENT FANS	31330.	0.
DOMHOT WATER	0.	267.
	-----	-----
TOTAL	427492.	732.

TOTAL ELECTRICITY	427492. KWH	0.201 KWH	/SQFT-YR GROSS-AREA	0.201 KWH	/SQFT-YR NET-AREA
TOTAL FUEL-OIL	732. MMBTU	0.000 MMBTU	/SQFT-YR GROSS-AREA	0.000 MMBTU	/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 0.0
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

NOTE: ENERGY IS APPORTIONED HOURLY TO ALL END-USE CATEGORIES.

ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- ES-D ENERGY COST SUMMARY

UTILITY-RATE	RESOURCE	METERS	METERED ENERGY UNITS/YR	TOTAL CHARGE (\$)	VIRTUAL RATE (\$/UNIT)	RATE USED ALL YEAR?
-----	-----	-----	-----	-----	-----	-----
OSC9-ELEC-TARIFF	ELECTRICITY	1 2 3 4 5	427508. KWH	97475.	0.2280	YES
OSC2-II-GAS-TARIF	NATURAL-GAS	4	0. THERM	347.	0.0000	YES
ODES-STM-RATE	FUEL-OIL	1 2	732. MMBTU	15527.	21.2063	YES
0				=====		
0				113349.		

ENERGY COST/GROSS BLDG AREA: 0.05
ENERGY COST/NET BLDG AREA: 0.05

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
LOBBY-SYS	VAVS	1.000	15781.0	290.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
30956.	21.389	2.1	30956.	10.609	1.1	0.103	1295.772	0.676	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
G-LOBBY-E		11941.	0.	0.000	0.500	845.	0.00	0.00	257.93	-709.31	-490.07	1.0
G-LOBBY-S		7565.	0.	0.000	0.500	962.	0.00	0.00	163.39	-449.33	-310.45	1.0
G-ELEV-LOBBY		4493.	0.	0.000	0.500	157.	0.00	0.00	97.05	-266.89	-184.40	1.0
G-LOBBY-N		6957.	0.	0.000	0.500	1226.	0.00	0.00	150.27	-413.24	-285.51	1.0

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
BOH-SYS	VAVS	1.000	33301.7	243.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
34562.	26.274	2.4	34562.	9.736	0.9	0.075	1429.322	0.672	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B1-BOH		2140.	0.	0.000	0.390	322.	0.00	0.00	46.22	-127.12	-87.83	1.0
B1-CORR		859.	0.	0.000	0.390	54.	0.00	0.00	18.56	-51.04	-35.26	1.0
B-CORR-1		2996.	0.	0.000	0.390	189.	0.00	0.00	64.71	-177.97	-122.96	1.0
B-LOCKERS		1139.	0.	0.000	0.390	171.	0.00	0.00	24.60	-67.65	-46.74	1.0
B-OFFICE		3999.	0.	0.000	0.390	601.	0.00	0.00	86.37	-237.52	-164.11	1.0

6-DOAS-SYS	HVSYS	1.000	4500.0	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
4500.	3.510	2.4	0.	0.000	0.0	1.000	0.000	0.000	-511.759	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
6-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 6-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
6-FLR-SYS	VAVS	1.000	19992.3	143.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
18992.	19.170	3.1	0.	0.000	0.0	0.237	873.464	0.663	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
6-OFC-CORE		4529.	0.	0.000	0.421	1073.	0.00	0.00	97.83	-269.02	-185.87	1.0
6-OFC-W		2190.	0.	0.000	0.421	519.	0.00	0.00	47.31	-130.09	-89.88	1.0
6-OFC-S		4124.	0.	0.000	0.421	977.	0.00	0.00	89.07	-244.94	-169.23	1.0
6-OFC-E		2727.	0.	0.000	0.421	646.	0.00	0.00	58.91	-161.99	-111.92	1.0
6-OFC-N		2855.	0.	0.000	0.421	677.	0.00	0.00	61.68	-169.61	-117.19	1.0
6-CORR		533.	0.	0.000	0.421	126.	0.00	0.00	11.51	-31.65	-21.87	1.0
6-RESTRMS		920.	0.	0.000	0.421	218.	0.00	0.00	19.86	-54.63	-37.74	1.0
6-ELEV-LOBBY		1114.	0.	0.000	0.421	264.	0.00	0.00	24.06	-66.17	-45.72	1.0
6-PLENUM		0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 7-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
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7-DOAS-SYS	HVSYS	1.000	54000.0	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
54000.	42.124	2.4	0.	0.000	0.0	1.000	0.000	0.000	-6141.104	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
7-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	12.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
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 REPORT- SV-A SYSTEM DESIGN PARAMETERS 7-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
7-FLR-SYS	VAVS	1.000	299908.0	2142.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
268644.	271.166	3.1	0.	0.000	0.0	0.201	12267.021	0.660	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
7-OFC-CORE		7779.	0.	0.000	0.447	1564.	0.00	0.00	168.03	-462.07	-319.25	12.0
7-OFC-W		2190.	0.	0.000	0.447	440.	0.00	0.00	47.31	-130.09	-89.88	12.0
7-OFC-S		4202.	0.	0.000	0.447	845.	0.00	0.00	90.76	-249.60	-172.45	12.0
7-OFC-E		2794.	0.	0.000	0.447	562.	0.00	0.00	60.35	-165.96	-114.67	12.0
7-OFC-N		2855.	0.	0.000	0.447	574.	0.00	0.00	61.68	-169.61	-117.19	12.0
7-CORR		533.	0.	0.000	0.447	107.	0.00	0.00	11.51	-31.65	-21.87	12.0
7-RESTRMS		920.	0.	0.000	0.447	185.	0.00	0.00	19.86	-54.63	-37.74	12.0
7-ELEV-LOBBY		1114.	0.	0.000	0.447	224.	0.00	0.00	24.06	-66.17	-45.72	12.0
7-PLENUM		0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	12.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 19-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM	SYSTEM	ALTITUDE	FLOOR AREA	MAX
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SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
21-DOAS-SYS	HVSYS		1.000	40500.0		0.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
40500.	31.593	2.4	0.	0.000	0.0	1.000	0.000	0.000	-4605.828	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
21-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 21-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
21-FLR-SYS	VAVS		1.000	223754.0		1598.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
205306.	207.233	3.1	0.	0.000	0.0	0.197	9372.348	0.661	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
21-OFC-CORE		7779.	0.	0.000	0.436	1532.	0.00	0.00	168.03	-462.08	-319.25	9.0
21-OFC-W		3080.	0.	0.000	0.436	607.	0.00	0.00	66.53	-182.96	-126.41	9.0
21-OFC-E		2761.	0.	0.000	0.436	544.	0.00	0.00	59.65	-164.03	-113.33	9.0
21-OFC-N		2566.	0.	0.000	0.436	505.	0.00	0.00	55.42	-152.40	-105.29	9.0
21-CORR		533.	0.	0.000	0.436	105.	0.00	0.00	11.51	-31.65	-21.87	9.0
21-RESTRMS		872.	0.	0.000	0.436	172.	0.00	0.00	18.83	-51.78	-35.78	9.0
21-ELEV-LOBBY		1056.	0.	0.000	0.436	208.	0.00	0.00	22.81	-62.73	-43.34	9.0
21-OFC-S		4165.	0.	0.000	0.436	820.	0.00	0.00	89.96	-247.39	-170.92	9.0
21-PLENUM		0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 30-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

REPORT- SV-A SYSTEM DESIGN PARAMETERS 31-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME		SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE						
31-DOAS-SYS		HVSYS		1.000		9000.0		0.						
SUPPLY FAN (CFM)		ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)		ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
9000.		7.021	2.4	0.		0.000	0.0	1.000	0.000	0.000	-1023.517	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)		EXHAUST FLOW (CFM)		FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
31-DOAS-ZONE		4500.		0.		0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	2.0

1	DOE	2.1E	MANHATTAN WEST	DOE-2.1E-121	Thu Apr 23 10:08:02 2015	SDL RUN	1
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ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

REPORT- SV-A SYSTEM DESIGN PARAMETERS 31-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
31-FLR-SYS	VAVS		1.000	46495.2		332.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
42869.	43.272	3.1	0.	0.000	0.0	0.210	1963.834	0.663	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
31-RESTRMS		879.	0.	0.000	0.436	185.	0.00	0.00	18.99	-52.21	-36.07	2.0
31-OFC-N		2461.	0.	0.000	0.436	517.	0.00	0.00	53.16	-146.18	-101.00	2.0
31-OFC-CORE		7098.	0.	0.000	0.436	1491.	0.00	0.00	153.32	-421.64	-291.31	2.0
31-OFC-W		3099.	0.	0.000	0.436	651.	0.00	0.00	66.94	-184.09	-127.19	2.0
31-OFC-E		2773.	0.	0.000	0.436	582.	0.00	0.00	59.89	-164.71	-113.80	2.0
31-CORR		532.	0.	0.000	0.436	112.	0.00	0.00	11.49	-31.59	-21.83	2.0
31-ELEV-LOBBY		600.	0.	0.000	0.436	126.	0.00	0.00	12.95	-35.62	-24.61	2.0
31-OFC-S		3993.	0.	0.000	0.436	839.	0.00	0.00	86.25	-237.18	-163.87	2.0
31-PLENUM		0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0

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1 DOE 2.1E                                MANHATTAN WEST                                DOE-2.1E-121  Thu Apr 23 10:08:02 2015SDL RUN  1
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SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
33-DOAS-SYS	HVSYS	1.000	40500.0	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
40500.	31.593	2.4	0.	0.000	0.0	1.000	0.000	0.000	-4605.828	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
33-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	9.0

1 DOE 2.1E

MANHATTAN WEST

DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
33-FLR-SYS	VAVS	1.000	214284.9	1531.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
196185.	198.027	3.1	0.	0.000	0.0	0.206	8981.252	0.664	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
33-RESTRMS		848.	0.	0.000	0.437	175.	0.00	0.00	18.32	-50.37	-34.80	9.0
33-OFC-N		2426.	0.	0.000	0.437	500.	0.00	0.00	52.41	-144.12	-99.57	9.0
33-OFC-CORE		7638.	0.	0.000	0.437	1573.	0.00	0.00	164.98	-453.71	-313.47	9.0
33-OFC-W		3102.	0.	0.000	0.437	639.	0.00	0.00	67.01	-184.27	-127.31	9.0
33-OFC-E		2747.	0.	0.000	0.437	566.	0.00	0.00	59.35	-163.20	-112.76	9.0
33-CORR		504.	0.	0.000	0.437	104.	0.00	0.00	10.90	-29.96	-20.70	9.0
33-ELEV-LOBBY		600.	0.	0.000	0.437	124.	0.00	0.00	12.95	-35.62	-24.61	9.0
33-OFC-S		3932.	0.	0.000	0.437	810.	0.00	0.00	84.93	-233.57	-161.38	9.0
33-PLENUM		0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0

ANYEC: NYSECCC code compliance for EN1
 REPORT- SV-A SYSTEM DESIGN PARAMETERS

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 42-DOAS-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
42-DOAS-SYS	HVSYS		1.000	4500.0		0.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
4500.	3.510	2.4	0.	0.000	0.0	1.000	0.000	0.000	-511.759	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
42-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	1.0

ANYEC: NYSECCC code compliance for EN1
 REPORT- SV-A SYSTEM DESIGN PARAMETERS

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 42-FLR-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
42-FLR-SYS	VAVS		1.000	22455.2		160.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
21046.	21.243	3.1	0.	0.000	0.0	0.214	965.249	0.663	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
42-OFC-E		2826.	0.	0.000	0.420	605.	0.00	0.00	61.05	-167.88	-115.99	1.0
42-RESTRMS		989.	0.	0.000	0.420	212.	0.00	0.00	21.37	-58.76	-40.60	1.0
42-OFC-CORE		6854.	0.	0.000	0.420	1467.	0.00	0.00	148.04	-407.11	-281.28	1.0
42-OFC-W		3107.	0.	0.000	0.420	665.	0.00	0.00	67.11	-184.56	-127.51	1.0
42-CORR		589.	0.	0.000	0.420	126.	0.00	0.00	12.72	-34.98	-24.17	1.0
42-ELEV-LOBBY		351.	0.	0.000	0.420	75.	0.00	0.00	7.58	-20.86	-14.41	1.0
42-OFC-N		2566.	0.	0.000	0.420	549.	0.00	0.00	55.44	-152.45	-105.33	1.0
42-OFC-S		3763.	0.	0.000	0.420	805.	0.00	0.00	81.27	-223.51	-154.42	1.0
42-PLENUM		0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 43-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
43-DOAS-SYS	HVSYS	1.000	40500.0	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
40500.	31.593	2.4	0.	0.000	0.0	1.000	0.000	0.000	-4605.828	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
43-DOAS-ZONE	4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 43-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
43-FLR-SYS	VAVS	1.000	204259.6	1459.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
193228.	195.043	3.1	0.	0.000	0.0	0.210	8855.423	0.662	0.000	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
43-OFC-E	2775.	0.	0.000	0.423	583.	0.00	0.00	59.94	-164.84	-113.89	9.0
43-RESTRMS	989.	0.	0.000	0.423	208.	0.00	0.00	21.37	-58.76	-40.60	9.0
43-OFC-CORE	6854.	0.	0.000	0.423	1439.	0.00	0.00	148.04	-407.11	-281.28	9.0
43-OFC-W	3109.	0.	0.000	0.423	653.	0.00	0.00	67.15	-184.67	-127.59	9.0
43-CORR	589.	0.	0.000	0.423	124.	0.00	0.00	12.72	-34.98	-24.17	9.0
43-ELEV-LOBBY	700.	0.	0.000	0.423	147.	0.00	0.00	15.11	-41.56	-28.71	9.0
43-OFC-N	2695.	0.	0.000	0.423	566.	0.00	0.00	58.21	-160.07	-110.59	9.0
43-OFC-S	3760.	0.	0.000	0.423	790.	0.00	0.00	81.21	-223.32	-154.29	9.0

43-PLENUM 0. 0. 0.000 0.000 0. 0.00 0.00 0.00 0.00 0.00 0.00 9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 52-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
52-DOAS-SYS	HVSYS	1.000	4500.0	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
4500.	3.510	2.4	0.	0.000	0.0	1.000	0.000	0.000	-511.759	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
52-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 52-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
52-FLR-SYS	VAVS	1.000	21759.8	155.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
21026.	21.224	3.1	0.	0.000	0.0	0.214	964.366	0.663	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
52-RESTRMS		1188.	0.	0.000	0.414	254.	0.00	0.00	25.65	-70.54	-48.74	1.0
52-OFC-E		2740.	0.	0.000	0.414	586.	0.00	0.00	59.19	-162.77	-112.46	1.0
52-OFC-CORE		6372.	0.	0.000	0.414	1364.	0.00	0.00	137.64	-378.52	-261.52	1.0
52-OFC-W		3111.	0.	0.000	0.414	666.	0.00	0.00	67.19	-184.78	-127.67	1.0
52-CORR		617.	0.	0.000	0.414	132.	0.00	0.00	13.33	-36.64	-25.32	1.0
52-ELEV-LOBBY		732.	0.	0.000	0.414	157.	0.00	0.00	15.82	-43.50	-30.05	1.0
52-OFC-N		2679.	0.	0.000	0.414	573.	0.00	0.00	57.87	-159.13	-109.95	1.0
52-OFC-S		3587.	0.	0.000	0.414	768.	0.00	0.00	77.49	-213.09	-147.22	1.0

52-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	0.00	1.0
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1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- SV-A SYSTEM DESIGN PARAMETERS 53-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
53-DOAS-SYS	HVSYS	1.000	9000.0	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
9000.	7.021	2.4	0.	0.000	0.0	1.000	0.000	0.000	-1023.517	0.00	0.37	
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
53-DOAS-ZONE	4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	2.0	

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- SV-A SYSTEM DESIGN PARAMETERS 53-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
53-FLR-SYS	VAVS	1.000	44101.8	315.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
42438.	42.836	3.1	0.	0.000	0.0	0.212	1945.722	0.663	0.000	0.00	0.37	
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
53-RESTRMS	1063.	0.	0.000	0.416	225.	0.00	0.00	22.97	-63.17	-43.64	2.0	
53-OFC-E	2697.	0.	0.000	0.416	572.	0.00	0.00	58.26	-160.21	-110.69	2.0	
53-OFC-CORE	6638.	0.	0.000	0.416	1407.	0.00	0.00	143.38	-394.29	-272.42	2.0	
53-OFC-W	3111.	0.	0.000	0.416	660.	0.00	0.00	67.20	-184.80	-127.68	2.0	
53-CORR	727.	0.	0.000	0.416	154.	0.00	0.00	15.69	-43.15	-29.82	2.0	
53-ELEV-LOBBY	732.	0.	0.000	0.416	155.	0.00	0.00	15.82	-43.50	-30.05	2.0	
53-OFC-N	2674.	0.	0.000	0.416	567.	0.00	0.00	57.75	-158.81	-109.72	2.0	

53-OFC-S	3577.	0.	0.000	0.416	758.	0.00	0.00	77.27	-212.48	-146.81	2.0
53-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	2.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 55-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
55-DOAS-SYS	HVSYS	1.000	31500.0	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
31500.	24.572	2.4	0.	0.000	0.0	1.000	0.000	0.000	-3582.311	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
55-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	7.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 55-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
55-FLR-SYS	VAVS	1.000	158761.2	1134.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
148559.	149.954	3.1	0.	0.000	0.0	0.212	6815.319	0.663	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
55-RESTRMS		1010.	0.	0.000	0.427	214.	0.00	0.00	21.82	-60.00	-41.45	7.0
55-OFC-E		2819.	0.	0.000	0.427	598.	0.00	0.00	60.89	-167.45	-115.70	7.0
55-OFC-CORE		6859.	0.	0.000	0.427	1454.	0.00	0.00	148.15	-407.40	-281.48	7.0
55-OFC-W		3112.	0.	0.000	0.427	660.	0.00	0.00	67.23	-184.88	-127.74	7.0
55-CORR		694.	0.	0.000	0.427	147.	0.00	0.00	14.98	-41.19	-28.46	7.0
55-ELEV-LOBBY		699.	0.	0.000	0.427	148.	0.00	0.00	15.10	-41.53	-28.69	7.0
55-OFC-N		2501.	0.	0.000	0.427	530.	0.00	0.00	54.03	-148.58	-102.66	7.0

55-OFC-S	3528.	0.	0.000	0.427	748.	0.00	0.00	76.21	-209.59	-144.80	7.0
55-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	7.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 62-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
62-DOAS-SYS	HVSYS	1.000	4500.0	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
4500.	3.510	2.4	0.	0.000	0.0	1.000	0.000	0.000	-511.759	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
62-DOAS-ZONE	4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 62-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
62-FLR-SYS	VAVS	1.000	21758.0	155.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
20778.	20.973	3.1	0.	0.000	0.0	0.217	954.094	0.664	0.000	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
62-RESTRMS	1058.	0.	0.000	0.419	230.	0.00	0.00	22.86	-62.86	-43.43	1.0
62-OFC-E	2619.	0.	0.000	0.419	568.	0.00	0.00	56.56	-155.55	-107.47	1.0
62-OFC-CORE	6859.	0.	0.000	0.419	1488.	0.00	0.00	148.15	-407.40	-281.48	1.0
62-OFC-W	3114.	0.	0.000	0.419	676.	0.00	0.00	67.25	-184.94	-127.78	1.0
62-CORR	727.	0.	0.000	0.419	158.	0.00	0.00	15.69	-43.16	-29.82	1.0
62-ELEV-LOBBY	361.	0.	0.000	0.419	78.	0.00	0.00	7.79	-21.43	-14.81	1.0

62-OFC-N	2566.	0.	0.000	0.419	557.	0.00	0.00	55.42	-152.39	-105.29	1.0
62-OFC-S	3477.	0.	0.000	0.419	754.	0.00	0.00	75.09	-206.51	-142.68	1.0
62-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 63-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
63-DOAS-SYS	HVSYS	1.000	22500.0	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
22500.	17.551	2.4	0.	0.000	0.0	1.000	0.000	0.000	-2558.793	0.00	0.37
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR) MULTIPLIER
63-DOAS-ZONE		4500.	0.	0.000	1.000	4500.	0.00	0.00	0.00	-267.30	-218.70 5.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 63-FLR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
63-FLR-SYS	VAVS	1.000	111174.0	794.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
105559.	106.550	3.1	0.	0.000	0.0	0.213	4842.637	0.663	0.000	0.00	0.37
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR) MULTIPLIER
63-RESTRMS		1058.	0.	0.000	0.421	225.	0.00	0.00	22.86	-62.86	-43.43 5.0
63-OFC-E		2594.	0.	0.000	0.421	552.	0.00	0.00	56.02	-154.06	-106.44 5.0
63-OFC-CORE		6997.	0.	0.000	0.421	1490.	0.00	0.00	151.13	-415.62	-287.15 5.0
63-OFC-W		3114.	0.	0.000	0.421	663.	0.00	0.00	67.27	-184.99	-127.81 5.0
63-CORR		727.	0.	0.000	0.421	155.	0.00	0.00	15.69	-43.16	-29.82 5.0
63-ELEV-LOBBY		731.	0.	0.000	0.421	156.	0.00	0.00	15.80	-43.45	-30.02 5.0

63-OFC-N	2505.	0.	0.000	0.421	534.	0.00	0.00	54.11	-148.80	-102.81	5.0
63-OFC-S	3386.	0.	0.000	0.421	721.	0.00	0.00	73.13	-201.11	-138.95	5.0
63-PLENUM	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	5.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

ANYEC: NYSECCC code compliance for EN1
 REPORT- SV-A SYSTEM DESIGN PARAMETERS

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 69-FLR-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
69-FLR-SYS	VAVS	1.000	8143.0	58.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
9609.	9.699	3.1	0.	0.000	0.0	0.071	403.440	0.661	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
68-CORR		3919.	0.	0.000	0.338	157.	0.00	0.00	84.65	-232.80	-160.84	1.0
69-CORR		2269.	0.	0.000	0.338	143.	0.00	0.00	49.01	-134.78	-93.12	1.0
69-OFC		257.	0.	0.000	0.338	26.	0.00	0.00	5.55	-15.27	-10.55	1.0
69-LOCKERS		937.	0.	0.000	0.338	141.	0.00	0.00	20.24	-55.66	-38.46	1.0
69-WORKSHOP		1456.	0.	0.000	0.338	166.	0.00	0.00	31.45	-86.48	-59.75	1.0
RF-CORR		770.	0.	0.000	0.338	49.	0.00	0.00	16.64	-45.76	-31.61	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

ANYEC: NYSECCC code compliance for EN1
 REPORT- SV-A SYSTEM DESIGN PARAMETERS

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 EMR-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
EMR-SYS	FPFC	1.000	6814.1	1.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
10510.	0.001	2.3	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER

19-EMR	831.	0.	0.625	1.000	17.	30.06	0.68	18.86	-44.43	-45.55	2.0
30-EMR	1379.	0.	1.036	1.000	28.	49.84	0.68	31.28	-73.71	-75.56	1.0
42-EMR	1863.	0.	1.399	1.000	37.	67.02	0.68	41.57	-99.57	-102.07	1.0
52-EMR	1501.	0.	1.127	1.000	30.	54.38	0.67	34.04	-80.21	-82.22	1.0
62-EMR	1363.	0.	1.024	1.000	27.	49.55	0.67	30.91	-72.84	-74.66	1.0
RF-EMR	1448.	0.	1.087	1.000	29.	53.25	0.67	32.83	-77.37	-79.31	1.0
RF2-EMR	1294.	0.	0.972	1.000	26.	46.78	0.68	29.34	-69.14	-70.88	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS B-NETWORK-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
B-NETWORK-SYS	FPFC	1.000	1467.2	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
3668.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B-NETWORK	3668.	0.	2.153	1.000	73.	122.29	0.71	66.80	-198.27	-201.15	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS B-SWICHGR-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
B-SWICHGR-SYS	FPFC	1.000	3270.2	1.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
8176.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B-SWITCHGEAR	8176.	0.	4.798	1.000	164.	273.66	0.71	148.89	-441.93	-448.34	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
4-IT-SYS	FPFC	1.000	666.8	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
1667.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
4-IT		1667.	0.	0.978	1.000	33.	55.70	0.71	30.36	-90.11	-91.41	1.0

1 DOE 2.1E

MANHATTAN WEST

DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
5-ELEC-GEN-SYS	FPFC	1.000	12980.3	3.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
32451.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
5-ELEC-GEN		32451.	0.	19.044	1.000	649.	1104.55	0.70	591.02	-1754.14	-1779.59	1.0

1 DOE 2.1E

MANHATTAN WEST

DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
5-MEETME-SYS	FPFC	1.000	1173.2	0.								
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
2933.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37	

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
5-MEETME	2933.	0.	1.721	1.000	59.	100.29	0.70	53.42	-158.54	-160.84	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 6-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
6-IT-SYS	FPFC	1.000	5169.5	1.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
28200.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
6-IT	28200.	0.	16.549	1.000	564.	927.38	0.71	517.75	-1524.34	-1546.46	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 7-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
7-IT-SYS	FPFC	1.000	2034.1	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
5085.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
7-IT	424.	0.	0.249	1.000	8.	14.15	0.71	7.72	-22.91	-23.24	12.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 19-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
19-IT-SYS	FPFC	1.000	339.0	0.

SUPPLY FAN (CFM)			ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)			ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
848.			0.001	1.8	0.			0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE NAME			SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)			MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
19-IT			424.	0.	0.249			1.000	8.	14.17	0.71	7.72	-22.91	-23.24	2.0
1 DOE 2.1E ANYEC: NYSECCC code compliance for EN1					MANHATTAN WEST SIM: VIRIDIAN ENERGY & ENVIRONMENTAL					DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1					
REPORT- SV-A SYSTEM DESIGN PARAMETERS					21-IT-SYS					WEATHER FILE- NEW YORK CENTRAL NY					
SYSTEM NAME			SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE						
21-IT-SYS			FPFC		1.000		1525.7		0.						
SUPPLY FAN (CFM)			ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)			ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
3814.			0.001	1.8	0.			0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE NAME			SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)			MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
21-IT			424.	0.	0.249			1.000	8.	14.19	0.71	7.72	-22.91	-23.24	9.0
1 DOE 2.1E ANYEC: NYSECCC code compliance for EN1					MANHATTAN WEST SIM: VIRIDIAN ENERGY & ENVIRONMENTAL					DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1					
REPORT- SV-A SYSTEM DESIGN PARAMETERS					30-IT-SYS					WEATHER FILE- NEW YORK CENTRAL NY					
SYSTEM NAME			SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE						
30-IT-SYS			FPFC		1.000		275.6		0.						
SUPPLY FAN (CFM)			ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)			ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
689.			0.001	1.8	0.			0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE NAME			SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)			MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
30-IT			689.	0.	0.404			1.000	14.	23.08	0.71	12.55	-37.24	-37.78	1.0
1 DOE 2.1E ANYEC: NYSECCC code compliance for EN1					MANHATTAN WEST SIM: VIRIDIAN ENERGY & ENVIRONMENTAL					DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1					

REPORT- SV-A SYSTEM DESIGN PARAMETERS						31-IT-SYS		WEATHER FILE- NEW YORK CENTRAL NY				
SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
31-IT-SYS	FPFC		1.000	551.2		0.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
1378.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
31-IT		689.	0.	0.404	1.000	14.	23.08	0.71	12.55	-37.24	-37.78	2.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 33-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
33-IT-SYS	FPFC		1.000	1865.1		0.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
4663.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
33-IT		518.	0.	0.304	1.000	10.	17.37	0.71	9.44	-28.00	-28.41	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 42-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
42-IT-SYS	FPFC		1.000	207.2		0.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
518.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37	
		SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING		EXTRACTION	HEATING	ADDITION	

ZONE NAME	FLOW (CFM)	FLOW (CFM)	FAN (KW)	FLOW RATIO	AIR FLOW (CFM)	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	RATE (KBTU/HR)	CAPACITY (KBTU/HR)	RATE (KBTU/HR)	MULTIPLIER
42-IT	518.	0.	0.304	1.000	10.	17.38	0.71	9.44	-28.00	-28.41	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 43-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
43-IT-SYS	FPFC	1.000	1865.1	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
4663.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION RATE (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
43-IT	518.	0.	0.304	1.000	10.	17.39	0.71	9.44	-28.00	-28.41	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 52-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
52-IT-SYS	FPFC	1.000	207.2	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
518.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION RATE (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
52-IT	518.	0.	0.304	1.000	10.	17.39	0.71	9.44	-28.00	-28.41	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 53-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
53-IT-SYS	FPFC	1.000	617.5	0.							
SUPPLY			RETURN			OUTSIDE	COOLING		HEATING	COOLING	HEATING

FAN (CFM)	ELEC (KW)	DELTA-T (F)	FAN (CFM)	ELEC (KW)	DELTA-T (F)	AIR RATIO	CAPACITY (KBTU/HR)	SENSIBLE (SHR)	CAPACITY (KBTU/HR)	EIR (BTU/BTU)	EIR (BTU/BTU)
1544.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
53-IT	772.	0.	0.453	1.000	15.	25.92	0.71	14.06	-41.72	-42.33	2.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 55-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
55-IT-SYS	FPFC	1.000	2162.2	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
5406.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
55-IT	772.	0.	0.453	1.000	15.	25.94	0.71	14.06	-41.74	-42.35	7.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 62-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
62-IT-SYS	FPFC	1.000	308.9	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
772.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
62-IT	772.	0.	0.453	1.000	15.	25.95	0.71	14.06	-41.74	-42.35	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS 63-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
63-IT-SYS	FPFC	1.000	989.3	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
2473.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR) MULTIPLIER
63-IT		495.	0.	0.290	1.000	10.	16.62	0.71	9.01	-26.74	-27.13 5.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL REPORT- SV-A SYSTEM DESIGN PARAMETERS 68-IT-SYS WEATHER FILE- NEW YORK CENTRAL NY											
SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
68-IT-SYS	FPFC	1.000	197.9	0.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
495.	0.001	1.8	0.	0.000	0.0	0.020	0.000	0.000	0.000	0.00	0.37
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR) MULTIPLIER
68-IT		495.	0.	0.290	1.000	10.	17.02	0.70	9.01	-26.74	-27.13 1.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL REPORT- SV-A SYSTEM DESIGN PARAMETERS ELEC-SYS WEATHER FILE- NEW YORK CENTRAL NY											
SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
ELEC-SYS	PVAVS	1.000	25093.1	5.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
62733.	14.726	0.7	0.	0.000	0.0	0.020	1505.051	0.812	0.000	0.31	0.37
ZONE		SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	SENSIBLE	EXTRACTION RATE	HEATING CAPACITY	ADDITION RATE

NAME	(CFM)	(CFM)	(KW)	RATIO	(CFM)	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULTIPLIER
5-ELEC	4588.	0.	0.000	1.000	92.	0.00	0.00	84.23	-272.51	-247.73	1.0
6-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	1.0
7-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	12.0
19-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	2.0
21-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	9.0
30-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	1.0
31-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	2.0
33-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	9.0
42-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	1.0
43-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	9.0
52-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	1.0
53-ELEC	942.	0.	0.000	1.000	19.	0.00	0.00	17.30	-55.98	-50.89	2.0
55-ELEC	808.	0.	0.000	1.000	16.	0.00	0.00	14.83	-47.98	-43.62	7.0
62-ELEC	808.	0.	0.000	1.000	16.	0.00	0.00	14.83	-47.98	-43.62	1.0
63-ELEC	808.	0.	0.000	1.000	16.	0.00	0.00	14.83	-47.98	-43.62	5.0
68-ELEC	808.	0.	0.000	1.000	16.	0.00	0.00	14.83	-47.98	-43.62	1.0
69-BMS	659.	0.	0.000	1.000	13.	0.00	0.00	12.10	-39.14	-35.58	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS MECH-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
MECH-SYS	PVAVS	1.000	91889.8	18.							
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
76540.	17.967	0.7	0.	0.000	0.0	0.020	2116.521	0.748	0.000	0.31	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION RATE (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B1-MER	418.	0.	0.000	1.000	8.	0.00	0.00	7.67	-24.81	-22.55	1.0
B-MER-2	3134.	0.	0.000	1.000	63.	0.00	0.00	57.55	-186.18	-169.25	1.0

B-MER-1	4403.	0.	0.000	1.000	88.	0.00	0.00	80.83	-261.52	-237.75	1.0
2-MECH	634.	0.	0.000	1.000	13.	0.00	0.00	11.64	-37.66	-34.23	1.0
4-MECH	13307.	0.	0.000	1.000	266.	0.00	0.00	244.32	-790.46	-718.60	1.0
5-PUMP	2096.	0.	0.000	1.000	42.	0.00	0.00	38.49	-124.52	-113.20	1.0
6-MECH	427.	0.	0.000	1.000	9.	0.00	0.00	7.84	-25.36	-23.05	1.0
7-MECH	427.	0.	0.000	1.000	9.	0.00	0.00	7.84	-25.36	-23.05	12.0
19-MECH	428.	0.	0.000	1.000	9.	0.00	0.00	7.85	-25.40	-23.10	2.0
21-MECH	427.	0.	0.000	1.000	9.	0.00	0.00	7.84	-25.36	-23.05	9.0
30-MECH	428.	0.	0.000	1.000	9.	0.00	0.00	7.85	-25.41	-23.10	1.0
31-MECH	723.	0.	0.000	1.000	14.	0.00	0.00	13.27	-42.92	-39.02	2.0
33-MECH	427.	0.	0.000	1.000	9.	0.00	0.00	7.85	-25.39	-23.08	9.0
42-MECH	427.	0.	0.000	1.000	9.	0.00	0.00	7.83	-25.34	-23.04	1.0
43-MECH	427.	0.	0.000	1.000	9.	0.00	0.00	7.83	-25.34	-23.04	9.0
52-MECH	427.	0.	0.000	1.000	9.	0.00	0.00	7.83	-25.34	-23.04	1.0
53-MECH	837.	0.	0.000	1.000	17.	0.00	0.00	15.37	-49.74	-45.22	2.0
55-MECH	475.	0.	0.000	1.000	9.	0.00	0.00	8.72	-28.21	-25.64	7.0
62-MECH	475.	0.	0.000	1.000	9.	0.00	0.00	8.72	-28.21	-25.64	1.0
63-MECH	475.	0.	0.000	1.000	9.	0.00	0.00	8.72	-28.21	-25.64	5.0
68-MECH	24040.	0.	0.000	1.000	481.	0.00	0.00	441.37	-1427.95	-1298.14	1.0

1 DOE 2.1E

MANHATTAN WEST

DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

ANYEC: NYSECCC code compliance for EN1

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- SV-A SYSTEM DESIGN PARAMETERS

STORAGE-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE					
STORAGE-SYS	PVAVS		1.000	33101.6		0.					
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
26314.	6.177	0.7	0.	0.000	0.0	0.020	754.166	0.734	0.000	0.31	0.37
ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	EXTRACTION SENSIBLE (SHR)	HEATING RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER

B1-STORAGE	1435.	0.	0.000	1.000	29.	0.00	0.00	26.35	-85.25	-77.50	1.0
B-STORAGE-2	2127.	0.	0.000	1.000	43.	0.00	0.00	39.04	-126.32	-114.84	1.0
B-BIKE-STOR	1604.	0.	0.000	1.000	32.	0.00	0.00	29.45	-95.28	-86.62	1.0
B-STORAGE	2178.	0.	0.000	1.000	44.	0.00	0.00	39.99	-129.38	-117.62	1.0
B-PACKAGE	427.	0.	0.000	1.000	9.	0.00	0.00	7.84	-25.36	-23.05	1.0
4-STORAGE	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	1.0
21-STORAGE	465.	0.	0.000	1.000	9.	0.00	0.00	8.54	-27.62	-25.11	9.0
30-STORAGE	94.	0.	0.000	1.000	2.	0.00	0.00	1.72	-5.57	-5.06	1.0
31-STORAGE	456.	0.	0.000	1.000	9.	0.00	0.00	8.38	-27.11	-24.64	2.0
33-STORAGE	188.	0.	0.000	1.000	4.	0.00	0.00	3.45	-11.16	-10.14	9.0
42-STORAGE	188.	0.	0.000	1.000	4.	0.00	0.00	3.45	-11.16	-10.14	1.0
43-STORAGE	728.	0.	0.000	1.000	15.	0.00	0.00	13.36	-43.24	-39.30	9.0
52-STORAGE	351.	0.	0.000	1.000	7.	0.00	0.00	6.44	-20.85	-18.95	1.0
53-STORAGE	297.	0.	0.000	1.000	6.	0.00	0.00	5.45	-17.63	-16.02	2.0
68-STORAGE	1302.	0.	0.000	1.000	26.	0.00	0.00	23.90	-77.31	-70.29	1.0
69-STORAGE	1590.	0.	0.000	1.000	32.	0.00	0.00	29.19	-94.44	-85.86	1.0
RF-STORAGE	710.	0.	0.000	1.000	14.	0.00	0.00	13.04	-42.18	-38.35	1.0

1 DOE 2.1E
MANHATTAN WEST
DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

ANYEC: NYSECCC code compliance for EN1
SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- SV-A SYSTEM DESIGN PARAMETERS
STAIR-SYS
WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
STAIR-SYS	PVAVS		1.000	51133.8		365.						
SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
30803.	7.231	0.7	0.	0.000	0.0	0.020	994.026	0.695	0.000	0.31	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B1-VEST		1653.	0.	0.000	1.000	33.	0.00	0.00	30.36	-98.21	-89.28	1.0
B1-STAIR		127.	0.	0.000	1.000	3.	0.00	0.00	2.33	-7.53	-6.85	1.0
B-STAIR		358.	0.	0.000	1.000	7.	0.00	0.00	6.58	-21.27	-19.34	1.0

G-STAIR	611.	0.	0.000	1.000	12.	0.00	0.00	11.23	-36.32	-33.02	1.0
2-STAIR	402.	0.	0.000	1.000	8.	0.00	0.00	7.37	-23.85	-21.68	1.0
3-STAIR	402.	0.	0.000	1.000	8.	0.00	0.00	7.38	-23.88	-21.71	1.0
4-STAIR	534.	0.	0.000	1.000	11.	0.00	0.00	9.80	-31.70	-28.81	1.0
5-STAIR	390.	0.	0.000	1.000	8.	0.00	0.00	7.15	-23.15	-21.04	1.0
6-STAIR	396.	0.	0.000	1.000	8.	0.00	0.00	7.27	-23.50	-21.37	1.0
7-STAIR	396.	0.	0.000	1.000	8.	0.00	0.00	7.27	-23.50	-21.37	12.0
19-STAIR	395.	0.	0.000	1.000	8.	0.00	0.00	7.25	-23.47	-21.33	2.0
21-STAIR	396.	0.	0.000	1.000	8.	0.00	0.00	7.26	-23.50	-21.36	9.0
30-STAIR	395.	0.	0.000	1.000	8.	0.00	0.00	7.25	-23.47	-21.33	1.0
31-STAIR	395.	0.	0.000	1.000	8.	0.00	0.00	7.25	-23.47	-21.34	2.0
33-STAIR	401.	0.	0.000	1.000	8.	0.00	0.00	7.36	-23.80	-21.64	9.0
42-STAIR	401.	0.	0.000	1.000	8.	0.00	0.00	7.37	-23.83	-21.66	1.0
43-STAIR	401.	0.	0.000	1.000	8.	0.00	0.00	7.37	-23.83	-21.66	9.0
52-STAIR	401.	0.	0.000	1.000	8.	0.00	0.00	7.37	-23.83	-21.66	1.0
53-STAIR	401.	0.	0.000	1.000	8.	0.00	0.00	7.37	-23.83	-21.66	2.0
55-STAIR	434.	0.	0.000	1.000	9.	0.00	0.00	7.96	-25.75	-23.41	7.0
62-STAIR	434.	0.	0.000	1.000	9.	0.00	0.00	7.96	-25.75	-23.41	1.0
63-STAIR	432.	0.	0.000	1.000	9.	0.00	0.00	7.93	-25.64	-23.31	5.0

1 DOE 2.1E

MANHATTAN WEST

DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

ANYEC: NYSECCC code compliance for EN1

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- SV-A

SYSTEM DESIGN PARAMETERS

STAIR-SYS

WEATHER FILE- NEW YORK CENTRAL NY

68-STAIR	428.	0.	0.000	1.000	9.	0.00	0.00	7.86	-25.42	-23.11	1.0
69-STAIR	235.	0.	0.000	1.000	5.	0.00	0.00	4.31	-13.94	-12.67	1.0
RF-STAIR	276.	0.	0.000	1.000	6.	0.00	0.00	5.07	-16.41	-14.92	1.0
RF2-STAIR	259.	0.	0.000	1.000	5.	0.00	0.00	4.75	-15.38	-13.98	1.0

1 DOE 2.1E

MANHATTAN WEST

DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1

ANYEC: NYSECCC code compliance for EN1

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- SV-A

SYSTEM DESIGN PARAMETERS

PARKING-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
PARKING-SYS	PSZ	1.000	53499.9	11.

SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
30000.	13.058	1.3	27000.	7.728	0.9	1.000	2122.413	1.000	-3819.508	0.31	0.37

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B-PARKING	30000.	0.	0.000	1.000	30000.	0.00	0.00	1134.00	-1782.00	-2268.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS LOADING-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
LOADING-SYS	PSZ	1.000	13412.2	96.

SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
58000.	14.453	0.8	52000.	19.073	1.1	1.000	4047.803	1.000	-7425.377	0.31	0.37

ZONE NAME	SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)	FAN (KW)	MINIMUM FLOW RATIO	OUTSIDE AIR FLOW (CFM)	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B-LOADING	58000.	0.	0.000	1.000	58000.	0.00	0.00	2192.40	-3445.20	-3132.00	1.0

1 DOE 2.1E

MANHATTAN WEST

DOE-2.1E-121 Thu Jan 29 18:21:33 2015SDL RUN 1

ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- LV-D DETAILS OF EXTERIOR SURFACES IN THE PROJECT

WEATHER FILE- NEW YORK CENTRAL NY

NUMBER OF EXTERIOR SURFACES 636 RECTANGULAR 636 OTHER 0

(U-VALUE INCLUDES OUTSIDE AIR FILM; WINDOW INCLUDES FRAME, IF DEFINED)

SURFACE	SPACE	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	AZIMUTH
	SHAFT	0.000	0.00	0.063	154.72	0.063	154.72	NORTH
	SHAFT	0.000	0.00	0.063	439.78	0.063	439.78	NORTH
	SHAFT	0.000	0.00	0.101	1885.00	0.101	1885.00	NORTH
	SHAFT	0.000	0.00	0.063	195.30	0.063	195.30	EAST
	SHAFT	0.000	0.00	0.063	645.40	0.063	645.40	WEST
	SHAFT	0.000	0.00	0.047	307.52	0.047	307.52	ROOF
	SHAFT	0.000	0.00	0.047	328.83	0.047	328.83	ROOF
	SHAFT	0.000	0.00	0.047	90.39	0.047	90.39	ROOF
	SHAFT	0.000	0.00	0.047	107.14	0.047	107.14	ROOF
	SHAFT	0.000	0.00	0.234	938.60	0.234	938.60	UNDERGRND
	SHAFT	0.000	0.00	0.234	2084.40	0.234	2084.40	UNDERGRND
	SHAFT	0.000	0.00	0.234	475.86	0.234	475.86	UNDERGRND
	SHAFT	0.000	0.00	0.234	625.00	0.234	625.00	UNDERGRND
	B1-VEST	0.000	0.00	0.234	4795.92	0.234	4795.92	UNDERGRND
	B1-VEST	0.000	0.00	0.234	1354.24	0.234	1354.24	UNDERGRND
	B1-VEST	0.000	0.00	0.234	65.61	0.234	65.61	UNDERGRND
	B1-VEST	0.000	0.00	0.234	1332.25	0.234	1332.25	UNDERGRND
	B1-STORAGE	0.000	0.00	0.234	665.64	0.234	665.64	UNDERGRND
	B1-STORAGE	0.000	0.00	0.234	1056.25	0.234	1056.25	UNDERGRND
	B1-STAIR	0.000	0.00	0.234	190.44	0.234	190.44	UNDERGRND
	B1-STAIR	0.000	0.00	0.234	12.96	0.234	12.96	UNDERGRND

B1-MER	0.000	0.00	0.234	297.72	0.234	297.72	UNDERGRND
B1-MER	0.000	0.00	0.234	139.24	0.234	139.24	UNDERGRND
B1-MER	0.000	0.00	0.234	153.76	0.234	153.76	UNDERGRND
B1-MER	0.000	0.00	0.234	275.56	0.234	275.56	UNDERGRND
B1-BOH	0.000	0.00	0.234	496.80	0.234	496.80	UNDERGRND
B1-BOH	0.000	0.00	0.234	1156.00	0.234	1156.00	UNDERGRND
B1-BOH	0.000	0.00	0.234	193.21	0.234	193.21	UNDERGRND
B1-BOH	0.000	0.00	0.234	739.84	0.234	739.84	UNDERGRND
B1-CORR	0.000	0.00	0.234	858.49	0.234	858.49	UNDERGRND
B-PARKING	0.000	0.00	0.047	3885.69	0.047	3885.69	ROOF
B-PARKING	0.000	0.00	0.047	1634.19	0.047	1634.19	ROOF
B-PARKING	0.000	0.00	0.047	21865.18	0.047	21865.18	ROOF
B-PARKING	0.000	0.00	0.047	10875.55	0.047	10875.55	ROOF
B-PARKING	0.000	0.00	0.047	8759.02	0.047	8759.02	ROOF
B-PARKING	0.000	0.00	0.047	4609.08	0.047	4609.08	ROOF
B-PARKING	0.000	0.00	0.047	1616.02	0.047	1616.02	ROOF
B-MER-2	0.000	0.00	0.047	424.42	0.047	424.42	ROOF
B-MER-2	0.000	0.00	0.047	443.55	0.047	443.55	ROOF
B-STORAGE-2	0.000	0.00	0.047	1915.95	0.047	1915.95	ROOF
B-STORAGE-2	0.000	0.00	0.047	465.96	0.047	465.96	ROOF
B-LOADING	0.000	0.00	0.047	266.84	0.047	266.84	ROOF
B-LOADING	0.000	0.00	0.047	2275.23	0.047	2275.23	ROOF
B-LOADING	0.000	0.00	0.047	696.27	0.047	696.27	ROOF
B-LOADING	0.000	0.00	0.047	4509.46	0.047	4509.46	ROOF
B-BIKE-STOR	0.000	0.00	0.047	213.16	0.047	213.16	ROOF
B-BIKE-STOR	0.000	0.00	0.047	1616.72	0.047	1616.72	ROOF
B-BIKE-STOR	0.000	0.00	0.047	168.12	0.047	168.12	ROOF
B-LOCKERS	0.000	0.00	0.047	573.35	0.047	573.35	ROOF
B-OFFICE	0.000	0.00	0.047	468.83	0.047	468.83	ROOF

B-OFFICE	0.000	0.00	0.047	54.05	0.047	54.05	ROOF
B-OFFICE	0.000	0.00	0.047	224.81	0.047	224.81	ROOF
B-CORR-2	0.000	0.00	0.047	92.63	0.047	92.63	ROOF
B-CORR-2	0.000	0.00	0.047	268.93	0.047	268.93	ROOF
B-CORR-2	0.000	0.00	0.047	620.79	0.047	620.79	ROOF
B-CORR-2	0.000	0.00	0.047	332.86	0.047	332.86	ROOF
B-CORR-2	0.000	0.00	0.047	18.35	0.047	18.35	ROOF
B-CORR-2	0.000	0.00	0.047	242.64	0.047	242.64	ROOF
B-MER-1	0.000	0.00	0.047	601.44	0.047	601.44	ROOF
B-MER-1	0.000	0.00	0.047	1729.83	0.047	1729.83	ROOF
B-MER-1	0.000	0.00	0.047	658.60	0.047	658.60	ROOF
B-MER-1	0.000	0.00	0.047	140.16	0.047	140.16	ROOF
B-MER-1	0.000	0.00	0.047	555.90	0.047	555.90	ROOF
B-MER-1	0.000	0.00	0.047	1466.82	0.047	1466.82	ROOF
B-STORAGE	0.000	0.00	0.047	906.05	0.047	906.05	ROOF
B-STAIR	0.000	0.00	0.047	224.48	0.047	224.48	ROOF
B-NETWORK	0.000	0.00	0.047	78.21	0.047	78.21	ROOF
B-NETWORK	0.000	0.00	0.047	78.21	0.047	78.21	ROOF
B-NETWORK	0.000	0.00	0.047	78.21	0.047	78.21	ROOF
B-NETWORK	0.000	0.00	0.047	869.59	0.047	869.59	ROOF
B-NETWORK	0.000	0.00	0.047	113.39	0.047	113.39	ROOF
B-SWITCHGEAR	0.000	0.00	0.047	300.42	0.047	300.42	ROOF
B-PARKING	0.000	0.00	0.234	3184.50	0.234	3184.50	UNDERGRND
B-PARKING	0.000	0.00	0.234	52532.64	0.234	52532.64	UNDERGRND
B-MER-2	0.000	0.00	0.234	2892.45	0.234	2892.45	UNDERGRND
B-MER-2	0.000	0.00	0.234	4225.00	0.234	4225.00	UNDERGRND
B-STORAGE-2	0.000	0.00	0.234	2781.24	0.234	2781.24	UNDERGRND
B-STORAGE-2	0.000	0.00	0.234	2530.09	0.234	2530.09	UNDERGRND
B-PACKAGE	0.000	0.00	0.234	556.96	0.234	556.96	UNDERGRND
B-LOADING	0.000	0.00	0.234	1334.03	0.234	1334.03	UNDERGRND

B-LOADING	0.000	0.00	0.234	12882.25	0.234	12882.25	UNDERGRND
B-BIKE-STOR	0.000	0.00	0.234	1900.96	0.234	1900.96	UNDERGRND
B-LOCKERS	0.000	0.00	0.234	1162.81	0.234	1162.81	UNDERGRND
B-OFFICE	0.000	0.00	0.423	3844.00	0.423	3844.00	UNDERGRND
B-CORR-2	0.000	0.00	0.234	355.25	0.234	355.25	UNDERGRND
B-CORR-2	0.000	0.00	0.234	4342.81	0.234	4342.81	UNDERGRND
B-MER-1	0.000	0.00	0.234	3168.00	0.234	3168.00	UNDERGRND
B-MER-1	0.000	0.00	0.234	6115.24	0.234	6115.24	UNDERGRND
B-STORAGE	0.000	0.00	0.234	2652.25	0.234	2652.25	UNDERGRND
B-STAIR	0.000	0.00	0.234	164.83	0.234	164.83	UNDERGRND
B-STAIR	0.000	0.00	0.234	376.36	0.234	376.36	UNDERGRND
B-NETWORK	0.000	0.00	0.234	2458.50	0.234	2458.50	UNDERGRND
B-NETWORK	0.000	0.00	0.234	1376.41	0.234	1376.41	UNDERGRND
B-SWITCHGEAR	0.000	0.00	0.234	3058.09	0.234	3058.09	UNDERGRND
G-STAIR	0.493	40.61	0.063	364.91	0.106	405.52	NORTH
G-STAIR	0.000	0.00	0.101	513.76	0.101	513.76	NORTH
G-CORR-2	0.000	0.00	0.101	202.41	0.101	202.41	NORTH
G-RETAIL-W	0.000	0.00	0.101	85.86	0.101	85.86	NORTH
G-LOBBY-N	0.493	3192.06	0.063	2620.90	0.299	5812.96	NORTH
G-RETAIL-N	0.493	652.21	0.063	682.51	0.273	1334.72	NORTH
G-LOBBY-N	0.493	206.29	0.063	169.87	0.299	376.16	NORTH
G-LOBBY-E	0.493	210.08	0.063	172.98	0.299	383.06	NORTH-EAST
G-LOBBY-E	0.493	3532.62	0.063	2900.53	0.299	6433.16	EAST
G-RETAIL-S	0.493	134.34	0.063	140.77	0.273	275.11	EAST
G-LOBBY-E	0.493	213.33	0.063	175.16	0.299	388.48	EAST
G-LOBBY-S	0.493	202.77	0.063	166.98	0.299	369.75	SOUTH-EAST
G-CORR-2	0.000	0.00	0.101	1385.49	0.101	1385.49	SOUTH
G-RETAIL-S	0.493	1453.54	0.063	1522.86	0.273	2976.40	SOUTH
G-LOBBY-S	0.493	1843.06	0.063	1514.27	0.299	3357.33	SOUTH

G-STAIR	0.493	13.54	0.101	232.73	0.123	246.26	WEST
G-CORR-2	0.000	0.00	0.101	248.11	0.101	248.11	WEST
G-RETAIL-W	0.000	0.00	0.101	1215.62	0.101	1215.62	WEST
G-STAIR	0.000	0.00	0.101	675.32	0.101	675.32	WEST
G-RETAIL-W	0.000	0.00	0.101	1363.34	0.101	1363.34	WEST
2-STAIR	0.000	0.00	0.063	158.24	0.063	158.24	NORTH
2-STAIR	0.000	0.00	0.101	356.93	0.101	356.93	NORTH
2-RETAIL-N	0.493	922.00	0.063	799.61	0.293	1721.61	NORTH
2-RETAIL-W	0.000	0.00	0.101	59.22	0.101	59.22	NORTH
2-CORR	0.000	0.00	0.101	141.05	0.101	141.05	NORTH
2-RETAIL-S	0.493	167.09	0.063	145.46	0.293	312.54	EAST
2-CORR	0.000	0.00	0.101	955.68	0.101	955.68	SOUTH
2-RETAIL-S	0.493	1809.31	0.063	1572.02	0.293	3381.33	SOUTH
2-RETAIL-W	0.000	0.00	0.101	103.16	0.101	103.16	WEST
2-STAIR	0.000	0.00	0.101	375.08	0.101	375.08	WEST
2-RETAIL-W	0.000	0.00	0.101	1381.01	0.101	1381.01	WEST
2-CORR	0.000	0.00	0.101	170.66	0.101	170.66	WEST
2-STAIR	0.000	0.00	0.101	170.34	0.101	170.34	WEST
2-RETAIL-W	0.000	0.00	0.101	1528.63	0.101	1528.63	WEST
3-STAIR	0.000	0.00	0.063	124.62	0.063	124.62	NORTH
3-STAIR	0.000	0.00	0.101	280.25	0.101	280.25	NORTH
3-CORR	0.000	0.00	0.101	129.68	0.101	129.68	NORTH
3-CORR	0.000	0.00	0.101	618.10	0.101	618.10	SOUTH
3-STAIR	0.000	0.00	0.101	295.12	0.101	295.12	WEST
3-STAIR	0.000	0.00	0.101	133.75	0.101	133.75	WEST
3-CORR	0.000	0.00	0.101	110.42	0.101	110.42	WEST
3-CORR	0.000	0.00	0.101	66.74	0.101	66.74	WEST
3-STAIR	0.000	0.00	0.047	14.08	0.047	14.08	ROOF
3-STAIR	0.000	0.00	0.047	25.26	0.047	25.26	ROOF
3-STAIR	0.000	0.00	0.047	11.12	0.047	11.12	ROOF

3-PLENUM	0.000	0.00	0.101	27.70	0.101	27.70	NORTH
3-PLENUM	0.000	0.00	0.063	403.33	0.063	403.33	NORTH
3-PLENUM	0.000	0.00	0.063	16.79	0.063	16.79	NORTH
3-PLENUM	0.000	0.00	0.063	17.09	0.063	17.09	NORTH-EAST
3-PLENUM	0.000	0.00	0.063	287.08	0.063	287.08	EAST
3-PLENUM	0.000	0.00	0.063	26.22	0.063	26.22	EAST
3-PLENUM	0.000	0.00	0.063	17.34	0.063	17.34	EAST
3-PLENUM	0.000	0.00	0.063	16.52	0.063	16.52	SOUTH-EAST
3-PLENUM	0.000	0.00	0.063	149.82	0.063	149.82	SOUTH
3-PLENUM	0.000	0.00	0.101	132.02	0.101	132.02	SOUTH
3-PLENUM	0.000	0.00	0.063	283.71	0.063	283.71	SOUTH
3-PLENUM	0.000	0.00	0.101	142.38	0.101	142.38	WEST
3-PLENUM	0.000	0.00	0.063	115.87	0.063	115.87	WEST
3-PLENUM	0.000	0.00	0.101	23.58	0.101	23.58	WEST
3-PLENUM	0.000	0.00	0.047	289.85	0.047	289.85	ROOF
3-PLENUM	0.000	0.00	0.047	4.92	0.047	4.92	ROOF
3-PLENUM	0.000	0.00	0.047	41.69	0.047	41.69	ROOF
3-PLENUM	0.000	0.00	0.047	405.07	0.047	405.07	ROOF
3-PLENUM	0.000	0.00	0.047	336.60	0.047	336.60	ROOF
3-PLENUM	0.000	0.00	0.047	568.00	0.047	568.00	ROOF
3-PLENUM	0.000	0.00	0.047	159.53	0.047	159.53	ROOF
3-PLENUM	0.000	0.00	0.047	1867.32	0.047	1867.32	ROOF
4-MECH	0.000	0.00	0.063	104.36	0.063	104.36	NORTH
4-MECH	0.000	0.00	0.101	169.96	0.101	169.96	NORTH
4-MECH	0.000	0.00	0.063	10.26	0.063	10.26	NORTH
4-MECH	1.437	33.50	0.063	58.03	0.566	91.53	NORTH
4-MECH	0.000	0.00	0.063	69.39	0.063	69.39	NORTH
4-MECH	1.437	866.67	0.063	1491.51	0.568	2358.18	NORTH
4-MECH	0.000	0.00	0.063	53.46	0.063	53.46	NORTH

4-STAIR	0.000	0.00	0.101	302.67	0.101	302.67	NORTH
4-MECH	0.000	0.00	0.063	102.87	0.063	102.87	NORTH
4-MECH	0.000	0.00	0.063	103.68	0.063	103.68	NORTH-EAST
4-MECH	0.000	0.00	0.063	1762.83	0.063	1762.83	EAST
4-MECH	1.437	24.82	0.063	43.22	0.564	68.04	EAST
4-MECH	1.437	22.43	0.063	44.66	0.523	67.10	EAST
4-MECH	0.000	0.00	0.063	102.60	0.063	102.60	EAST
4-MECH	0.000	0.00	0.063	117.58	0.063	117.58	SOUTH-EAST
4-MECH	1.437	867.42	0.063	1493.06	0.568	2360.48	SOUTH
4-MECH	1.437	13.95	0.063	26.82	0.533	40.77	SOUTH
4-MECH	0.000	0.00	0.063	68.72	0.063	68.72	SOUTH
4-CORR	0.000	0.00	0.101	875.07	0.101	875.07	SOUTH
4-MECH	0.000	0.00	0.063	36.99	0.063	36.99	SOUTH
4-MECH	0.000	0.00	0.063	103.95	0.063	103.95	SOUTH
4-MECH	0.000	0.00	0.063	100.04	0.063	100.04	SOUTH-WEST
4-MECH	1.437	101.94	0.063	176.02	0.567	277.96	SOUTH-WEST
4-MECH	1.437	24.52	0.063	42.58	0.565	67.10	WEST
4-MECH	0.000	0.00	0.063	44.15	0.063	44.15	WEST
4-MECH	0.000	0.00	0.101	1011.42	0.101	1011.42	WEST
4-MECH	1.437	24.57	0.063	43.47	0.559	68.04	WEST
4-CORR	0.000	0.00	0.101	144.72	0.101	144.72	WEST
4-MECH	0.000	0.00	0.063	142.96	0.063	142.96	WEST
4-STAIR	0.000	0.00	0.101	144.45	0.101	144.45	WEST
4-MECH	0.000	0.00	0.063	105.03	0.063	105.03	WEST
4-CORR	0.000	0.00	0.047	691.55	0.047	691.55	ROOF
4-MECH	0.000	0.00	0.047	10.62	0.047	10.62	ROOF
4-MECH	0.000	0.00	0.047	134.71	0.047	134.71	ROOF
4-STAIR	0.000	0.00	0.047	239.89	0.047	239.89	ROOF
5-ELEC-GEN	0.000	0.00	0.063	208.71	0.063	208.71	NORTH
5-PUMP	0.000	0.00	0.063	106.92	0.063	106.92	NORTH

5-ELEC-GEN	1.437	57.16	0.063	125.90	0.492	183.06	NORTH
5-PUMP	1.437	531.36	0.063	887.22	0.578	1418.58	NORTH
5-ELEC-GEN	0.000	0.00	0.063	140.40	0.063	140.40	NORTH
5-ELEC-GEN	1.437	1234.99	0.063	2061.17	0.578	3296.16	NORTH
5-PUMP	0.000	0.00	0.063	205.74	0.063	205.74	NORTH
5-PUMP	0.000	0.00	0.063	207.63	0.063	207.63	NORTH-EAST
5-ELEC-GEN	0.000	0.00	0.063	666.36	0.063	666.36	EAST
5-ELEC-GEN	1.437	46.19	0.063	89.35	0.531	135.54	EAST
5-ELEC-GEN	1.437	44.36	0.063	89.83	0.517	134.19	EAST
5-PUMP	0.000	0.00	0.063	670.14	0.063	670.14	EAST
5-CORR	0.000	0.00	0.063	2189.16	0.063	2189.16	EAST
5-ELEC-GEN	0.000	0.00	0.063	205.20	0.063	205.20	EAST
5-ELEC-GEN	0.000	0.00	0.063	235.17	0.063	235.17	SOUTH-EAST
5-ELEC-GEN	0.000	0.00	0.063	137.43	0.063	137.43	SOUTH
5-ELEC-GEN	1.437	1770.41	0.063	2950.54	0.578	4720.95	SOUTH
5-ELEC-GEN	1.437	32.49	0.063	57.42	0.560	89.91	SOUTH
5-ELEC-GEN	0.000	0.00	0.063	73.98	0.063	73.98	SOUTH
5-ELEC-GEN	0.000	0.00	0.063	207.90	0.063	207.90	SOUTH
5-ELEC-GEN	0.000	0.00	0.063	200.07	0.063	200.07	SOUTH-WEST
5-ELEC-GEN	1.437	201.92	0.063	354.01	0.562	555.93	SOUTH-WEST
5-ELEC-GEN	0.000	0.00	0.063	1707.21	0.063	1707.21	WEST
5-PUMP	0.000	0.00	0.063	134.19	0.063	134.19	WEST
5-ELEC-GEN	0.000	0.00	0.101	1267.92	0.101	1267.92	WEST
5-ELEC-GEN	1.437	47.82	0.063	88.26	0.546	136.08	WEST
5-ELEC-GEN	0.000	0.00	0.063	210.06	0.063	210.06	WEST
6-OFC-N	0.000	0.00	0.063	87.35	0.063	87.35	NORTH
6-OFC-N	0.493	1036.41	0.063	1040.31	0.278	2076.71	NORTH
6-OFC-N	0.493	45.91	0.063	46.41	0.277	92.32	NORTH
6-OFC-E	0.493	43.99	0.063	44.49	0.277	88.48	NORTH-EAST

6-OFC-E	0.493	736.81	0.063	740.67	0.278	1477.47	EAST
6-OFC-E	0.493	46.64	0.063	46.81	0.278	93.45	EAST
6-OFC-S	0.493	51.38	0.063	51.68	0.278	103.06	SOUTH-EAST
6-OFC-S	0.493	1030.20	0.063	1034.19	0.278	2064.40	SOUTH
6-OFC-S	0.493	43.37	0.063	43.53	0.278	86.90	SOUTH
6-OFC-W	0.493	42.47	0.063	42.62	0.278	85.09	SOUTH-WEST
6-OFC-W	0.493	281.83	0.101	1191.92	0.176	1473.75	WEST
6-OFC-W	0.000	0.00	0.063	87.91	0.063	87.91	WEST
6-OFC-W	0.000	0.00	0.063	104.24	0.063	104.24	FLOOR
6-OFC-S	0.000	0.00	0.063	881.24	0.063	881.24	FLOOR
6-OFC-N	0.000	0.00	0.047	867.86	0.047	867.86	ROOF
6-PLENUM	0.000	0.00	0.063	17.01	0.063	17.01	NORTH
6-PLENUM	0.000	0.00	0.063	404.36	0.063	404.36	NORTH
6-PLENUM	0.000	0.00	0.063	17.91	0.063	17.91	NORTH
6-PLENUM	0.000	0.00	0.063	17.31	0.063	17.31	NORTH-EAST
6-PLENUM	0.000	0.00	0.063	287.56	0.063	287.56	EAST
6-PLENUM	0.000	0.00	0.063	18.19	0.063	18.19	EAST
6-PLENUM	0.000	0.00	0.063	20.06	0.063	20.06	SOUTH-EAST
6-PLENUM	0.000	0.00	0.063	401.92	0.063	401.92	SOUTH
6-PLENUM	0.000	0.00	0.063	16.92	0.063	16.92	SOUTH
6-PLENUM	0.000	0.00	0.063	16.59	0.063	16.59	SOUTH-WEST
6-PLENUM	0.000	0.00	0.063	286.92	0.063	286.92	WEST
6-PLENUM	0.000	0.00	0.063	17.12	0.063	17.12	WEST
7-OFC-N	0.000	0.00	0.063	1048.19	0.063	1048.19	NORTH
7-OFC-N	0.493	12436.88	0.063	12483.69	0.278	24920.57	NORTH
7-OFC-N	0.493	550.92	0.063	556.94	0.277	1107.85	NORTH
7-OFC-E	0.493	527.90	0.063	533.84	0.277	1061.75	NORTH-EAST
7-OFC-E	0.493	8841.72	0.063	8887.98	0.278	17729.70	EAST
7-OFC-E	0.493	559.71	0.063	561.70	0.278	1121.41	EAST
7-OFC-S	0.493	616.56	0.063	620.11	0.278	1236.67	SOUTH-EAST

7-OFC-S	0.493	12362.43	0.063	12410.33	0.278	24772.76	SOUTH
7-OFC-S	0.493	520.46	0.063	522.30	0.278	1042.76	SOUTH
7-OFC-W	0.493	509.63	0.063	511.44	0.278	1021.07	SOUTH-WEST
7-OFC-W	0.493	8730.72	0.063	8954.23	0.275	17684.95	WEST
7-OFC-W	0.000	0.00	0.063	1054.97	0.063	1054.97	WEST
7-PLENUM	0.000	0.00	0.063	204.07	0.063	204.07	NORTH
7-PLENUM	0.000	0.00	0.063	4852.32	0.063	4852.32	NORTH
7-PLENUM	0.000	0.00	0.063	214.90	0.063	214.90	NORTH
7-PLENUM	0.000	0.00	0.063	207.77	0.063	207.77	NORTH-EAST
7-PLENUM	0.000	0.00	0.063	3450.74	0.063	3450.74	EAST
7-PLENUM	0.000	0.00	0.063	218.33	0.063	218.33	EAST
7-PLENUM	0.000	0.00	0.063	240.77	0.063	240.77	SOUTH-EAST
7-PLENUM	0.000	0.00	0.063	4823.02	0.063	4823.02	SOUTH
7-PLENUM	0.000	0.00	0.063	203.02	0.063	203.02	SOUTH
7-PLENUM	0.000	0.00	0.063	199.06	0.063	199.06	SOUTH-WEST
7-PLENUM	0.000	0.00	0.063	3443.09	0.063	3443.09	WEST
7-PLENUM	0.000	0.00	0.063	205.39	0.063	205.39	WEST
19-OFC-N	0.493	87.19	0.063	87.50	0.278	174.70	NORTH
19-OFC-N	0.493	2073.04	0.063	2080.39	0.278	4153.43	NORTH
19-OFC-N	0.493	92.16	0.063	92.48	0.278	184.64	NORTH
19-OFC-E	0.493	88.32	0.063	88.64	0.278	176.96	NORTH-EAST
19-OFC-E	0.493	1474.63	0.063	1480.32	0.278	2954.95	EAST
19-OFC-E	0.493	93.29	0.063	93.62	0.278	186.90	EAST
19-OFC-S	0.493	102.76	0.063	103.35	0.278	206.11	SOUTH-EAST
19-OFC-S	0.493	2060.63	0.063	2068.16	0.278	4128.79	SOUTH
19-OFC-S	0.493	86.74	0.063	87.05	0.278	173.79	SOUTH
19-OFC-W	0.493	84.94	0.063	85.24	0.278	170.18	SOUTH-WEST
19-OFC-W	0.493	1471.14	0.063	1476.35	0.278	2947.49	WEST
19-OFC-W	0.493	87.76	0.063	88.07	0.278	175.83	WEST

19-PLENUM	0.000	0.00	0.063	34.01	0.063	34.01	NORTH
19-PLENUM	0.000	0.00	0.063	808.63	0.063	808.63	NORTH
19-PLENUM	0.000	0.00	0.063	35.95	0.063	35.95	NORTH
19-PLENUM	0.000	0.00	0.063	34.45	0.063	34.45	NORTH-EAST
19-PLENUM	0.000	0.00	0.063	575.30	0.063	575.30	EAST
19-PLENUM	0.000	0.00	0.063	36.39	0.063	36.39	EAST
19-PLENUM	0.000	0.00	0.063	40.08	0.063	40.08	SOUTH-EAST
19-PLENUM	0.000	0.00	0.063	803.84	0.063	803.84	SOUTH
19-PLENUM	0.000	0.00	0.063	33.88	0.063	33.88	SOUTH
19-PLENUM	0.000	0.00	0.063	33.13	0.063	33.13	SOUTH-WEST
19-PLENUM	0.000	0.00	0.063	573.85	0.063	573.85	WEST
19-PLENUM	0.000	0.00	0.063	34.23	0.063	34.23	WEST
21-OFC-N	0.493	390.85	0.063	395.29	0.277	786.14	NORTH
21-OFC-N	0.493	9326.64	0.063	9363.79	0.278	18690.43	NORTH
21-OFC-N	0.493	392.37	0.063	397.83	0.277	790.21	NORTH
21-OFC-E	0.493	438.57	0.063	442.16	0.277	880.72	NORTH-EAST
21-OFC-E	0.493	6395.76	0.063	6559.80	0.275	12955.56	EAST
21-OFC-E	0.493	442.12	0.063	443.69	0.278	885.81	EAST
21-OFC-S	0.493	446.18	0.063	448.78	0.278	894.96	SOUTH-EAST
21-OFC-S	0.493	9272.33	0.063	9307.24	0.278	18579.57	SOUTH
21-OFC-S	0.493	389.84	0.063	392.24	0.278	782.07	SOUTH
21-OFC-W	0.493	381.72	0.063	384.09	0.278	765.80	SOUTH-WEST
21-OFC-W	0.493	6612.51	0.063	6651.21	0.278	13263.71	WEST
21-OFC-W	0.493	381.21	0.063	410.02	0.270	791.23	WEST
21-PLENUM	0.000	0.00	0.063	153.05	0.063	153.05	NORTH
21-PLENUM	0.000	0.00	0.063	3638.84	0.063	3638.84	NORTH
21-PLENUM	0.000	0.00	0.063	153.85	0.063	153.85	NORTH
21-PLENUM	0.000	0.00	0.063	171.47	0.063	171.47	NORTH-EAST
21-PLENUM	0.000	0.00	0.063	2522.32	0.063	2522.32	EAST
21-PLENUM	0.000	0.00	0.063	172.46	0.063	172.46	EAST

21-PLENUM	0.000	0.00	0.063	174.24	0.063	174.24	SOUTH-EAST
21-PLENUM	0.000	0.00	0.063	3617.26	0.063	3617.26	SOUTH
21-PLENUM	0.000	0.00	0.063	152.26	0.063	152.26	SOUTH
21-PLENUM	0.000	0.00	0.063	149.09	0.063	149.09	SOUTH-WEST
21-PLENUM	0.000	0.00	0.063	2582.32	0.063	2582.32	WEST
21-PLENUM	0.000	0.00	0.063	154.04	0.063	154.04	WEST
30-OFC-N	0.493	43.37	0.063	43.98	0.277	87.35	NORTH
30-OFC-N	0.493	973.29	0.063	977.09	0.278	1950.38	NORTH
30-OFC-N	0.493	76.93	0.063	77.32	0.278	154.25	NORTH
30-OFC-E	0.493	51.83	0.063	52.35	0.277	104.19	NORTH-EAST
30-OFC-E	0.493	671.16	0.063	689.81	0.275	1360.97	EAST
30-OFC-E	0.493	62.83	0.063	64.07	0.276	126.90	EAST
30-OFC-S	0.493	65.65	0.063	66.45	0.277	132.10	SOUTH-EAST
30-OFC-S	0.493	974.03	0.063	977.59	0.278	1951.62	SOUTH
30-OFC-S	0.493	42.92	0.063	43.98	0.276	86.90	SOUTH
30-OFC-W	0.493	41.68	0.063	43.41	0.274	85.09	SOUTH-WEST
30-OFC-W	0.493	735.34	0.063	738.40	0.278	1473.75	WEST
30-OFC-W	0.493	43.48	0.063	44.43	0.276	87.91	WEST
30-PLENUM	0.000	0.00	0.063	17.01	0.063	17.01	NORTH
30-PLENUM	0.000	0.00	0.063	379.72	0.063	379.72	NORTH
30-PLENUM	0.000	0.00	0.063	30.03	0.063	30.03	NORTH
30-PLENUM	0.000	0.00	0.063	20.28	0.063	20.28	NORTH-EAST
30-PLENUM	0.000	0.00	0.063	264.97	0.063	264.97	EAST
30-PLENUM	0.000	0.00	0.063	24.71	0.063	24.71	EAST
30-PLENUM	0.000	0.00	0.063	25.72	0.063	25.72	SOUTH-EAST
30-PLENUM	0.000	0.00	0.063	379.96	0.063	379.96	SOUTH
30-PLENUM	0.000	0.00	0.063	16.92	0.063	16.92	SOUTH
30-PLENUM	0.000	0.00	0.063	16.57	0.063	16.57	SOUTH-WEST
30-PLENUM	0.000	0.00	0.063	286.92	0.063	286.92	WEST

30-PLENUM	0.000	0.00	0.063	17.12	0.063	17.12	WEST
31-OFC-N	0.493	87.08	0.063	87.62	0.278	174.70	NORTH
31-OFC-N	0.493	1946.36	0.063	1954.40	0.278	3900.76	NORTH
31-OFC-N	0.493	153.97	0.063	154.52	0.278	308.49	NORTH
31-OFC-E	0.493	104.11	0.063	105.16	0.277	209.28	NORTH-EAST
31-OFC-E	0.493	1356.19	0.063	1361.00	0.278	2717.20	EAST
31-OFC-E	0.493	123.63	0.063	124.07	0.278	247.70	EAST
31-OFC-S	0.493	131.86	0.063	132.33	0.278	264.19	SOUTH-EAST
31-OFC-S	0.493	1948.17	0.063	1955.08	0.278	3903.25	SOUTH
31-OFC-S	0.493	86.74	0.063	87.05	0.278	173.79	SOUTH
31-OFC-W	0.493	84.94	0.063	85.24	0.278	170.18	SOUTH-WEST
31-OFC-W	0.493	1471.02	0.063	1476.47	0.278	2947.49	WEST
31-OFC-W	0.493	87.65	0.063	88.18	0.278	175.83	WEST
31-PLENUM	0.000	0.00	0.063	17.01	0.063	17.01	NORTH
31-PLENUM	0.000	0.00	0.063	379.72	0.063	379.72	NORTH
31-PLENUM	0.000	0.00	0.063	30.03	0.063	30.03	NORTH
31-PLENUM	0.000	0.00	0.063	20.37	0.063	20.37	NORTH-EAST
31-PLENUM	0.000	0.00	0.063	264.51	0.063	264.51	EAST
31-PLENUM	0.000	0.00	0.063	24.11	0.063	24.11	EAST
31-PLENUM	0.000	0.00	0.063	25.72	0.063	25.72	SOUTH-EAST
31-PLENUM	0.000	0.00	0.063	379.96	0.063	379.96	SOUTH
31-PLENUM	0.000	0.00	0.063	16.92	0.063	16.92	SOUTH
31-PLENUM	0.000	0.00	0.063	16.57	0.063	16.57	SOUTH-WEST
31-PLENUM	0.000	0.00	0.063	286.92	0.063	286.92	WEST
31-PLENUM	0.000	0.00	0.063	17.12	0.063	17.12	WEST
33-OFC-N	0.493	391.87	0.063	394.27	0.278	786.14	NORTH
33-OFC-N	0.493	8595.19	0.063	8635.84	0.278	17231.03	NORTH
33-OFC-N	0.493	613.69	0.063	635.19	0.274	1248.88	NORTH
33-OFC-E	0.493	621.81	0.063	628.08	0.277	1249.89	NORTH-EAST
33-OFC-E	0.493	6003.39	0.063	6024.67	0.278	12028.06	EAST

33-OFC-E	0.493	635.01	0.063	637.26	0.278	1272.27	EAST
33-OFC-S	0.493	617.24	0.063	619.43	0.278	1236.67	SOUTH-EAST
33-OFC-S	0.493	8602.81	0.063	8640.43	0.278	17243.23	SOUTH
33-OFC-S	0.493	383.24	0.063	398.83	0.274	782.07	SOUTH
33-OFC-W	0.493	378.67	0.063	387.13	0.276	765.80	SOUTH-WEST
33-OFC-W	0.493	6619.61	0.063	6644.10	0.278	13263.71	WEST
33-OFC-W	0.493	394.41	0.063	396.82	0.278	791.23	WEST
33-PLENUM	0.000	0.00	0.063	16.98	0.063	16.98	NORTH
33-PLENUM	0.000	0.00	0.063	372.75	0.063	372.75	NORTH
33-PLENUM	0.000	0.00	0.063	27.02	0.063	27.02	NORTH
33-PLENUM	0.000	0.00	0.063	27.04	0.063	27.04	NORTH-EAST
33-PLENUM	0.000	0.00	0.063	260.19	0.063	260.19	EAST
33-PLENUM	0.000	0.00	0.063	27.52	0.063	27.52	EAST
33-PLENUM	0.000	0.00	0.063	26.75	0.063	26.75	SOUTH-EAST
33-PLENUM	0.000	0.00	0.063	373.01	0.063	373.01	SOUTH
33-PLENUM	0.000	0.00	0.063	16.92	0.063	16.92	SOUTH
33-PLENUM	0.000	0.00	0.063	16.57	0.063	16.57	SOUTH-WEST
33-PLENUM	0.000	0.00	0.063	286.92	0.063	286.92	WEST
33-PLENUM	0.000	0.00	0.063	17.16	0.063	17.16	WEST
42-OFC-N	0.493	43.54	0.063	43.81	0.278	87.35	NORTH
42-OFC-N	0.493	907.48	0.063	910.69	0.278	1818.17	NORTH
42-OFC-N	0.493	78.17	0.063	79.35	0.277	157.52	NORTH
42-OFC-E	0.493	73.26	0.063	74.31	0.277	147.58	NORTH-EAST
42-OFC-E	0.493	639.41	0.063	641.90	0.278	1281.31	EAST
42-OFC-E	0.493	83.02	0.063	83.43	0.278	166.45	EAST
42-OFC-S	0.493	83.53	0.063	85.63	0.276	169.16	SOUTH-EAST
42-OFC-S	0.493	899.92	0.063	905.48	0.278	1805.40	SOUTH
42-OFC-S	0.493	42.58	0.063	44.31	0.274	86.90	SOUTH
42-OFC-W	0.493	42.07	0.063	43.01	0.276	85.09	SOUTH-WEST

42-OFC-W	0.493	735.51	0.063	738.23	0.278	1473.75	WEST
42-OFC-W	0.493	43.82	0.063	44.09	0.278	87.91	WEST
42-PLENUM	0.000	0.00	0.063	17.01	0.063	17.01	NORTH
42-PLENUM	0.000	0.00	0.063	353.98	0.063	353.98	NORTH
42-PLENUM	0.000	0.00	0.063	30.67	0.063	30.67	NORTH
42-PLENUM	0.000	0.00	0.063	28.73	0.063	28.73	NORTH-EAST
42-PLENUM	0.000	0.00	0.063	249.46	0.063	249.46	EAST
42-PLENUM	0.000	0.00	0.063	32.41	0.063	32.41	EAST
42-PLENUM	0.000	0.00	0.063	32.93	0.063	32.93	SOUTH-EAST
42-PLENUM	0.000	0.00	0.063	351.49	0.063	351.49	SOUTH
42-PLENUM	0.000	0.00	0.063	16.92	0.063	16.92	SOUTH
42-PLENUM	0.000	0.00	0.063	16.57	0.063	16.57	SOUTH-WEST
42-PLENUM	0.000	0.00	0.063	286.92	0.063	286.92	WEST
42-PLENUM	0.000	0.00	0.063	17.12	0.063	17.12	WEST
43-OFC-N	0.493	391.87	0.063	394.27	0.278	786.14	NORTH
43-OFC-N	0.493	8167.28	0.063	8196.25	0.278	16363.53	NORTH
43-OFC-N	0.493	703.53	0.063	714.16	0.277	1417.70	NORTH
43-OFC-E	0.493	695.92	0.063	716.69	0.275	1412.61	NORTH-EAST
43-OFC-E	0.493	5634.36	0.063	5851.64	0.274	11486.00	EAST
43-OFC-E	0.493	698.46	0.063	700.93	0.278	1399.39	EAST
43-OFC-S	0.493	752.77	0.063	769.68	0.276	1522.45	SOUTH-EAST
43-OFC-S	0.493	8099.27	0.063	8149.34	0.278	16248.61	SOUTH
43-OFC-S	0.493	383.24	0.063	398.83	0.274	782.07	SOUTH
43-OFC-W	0.493	378.67	0.063	387.13	0.276	765.80	SOUTH-WEST
43-OFC-W	0.493	6619.61	0.063	6644.10	0.278	13263.71	WEST
43-OFC-W	0.493	394.41	0.063	396.82	0.278	791.23	WEST
43-PLENUM	0.000	0.00	0.063	153.05	0.063	153.05	NORTH
43-PLENUM	0.000	0.00	0.063	3185.82	0.063	3185.82	NORTH
43-PLENUM	0.000	0.00	0.063	276.01	0.063	276.01	NORTH
43-PLENUM	0.000	0.00	0.063	275.02	0.063	275.02	NORTH-EAST

43-PLENUM	0.000	0.00	0.063	2236.21	0.063	2236.21	EAST
43-PLENUM	0.000	0.00	0.063	272.45	0.063	272.45	EAST
43-PLENUM	0.000	0.00	0.063	296.41	0.063	296.41	SOUTH-EAST
43-PLENUM	0.000	0.00	0.063	3163.45	0.063	3163.45	SOUTH
43-PLENUM	0.000	0.00	0.063	152.26	0.063	152.26	SOUTH
43-PLENUM	0.000	0.00	0.063	149.09	0.063	149.09	SOUTH-WEST
43-PLENUM	0.000	0.00	0.063	2582.32	0.063	2582.32	WEST
43-PLENUM	0.000	0.00	0.063	154.04	0.063	154.04	WEST
52-OFC-N	0.493	43.54	0.063	43.81	0.278	87.35	NORTH
52-OFC-N	0.493	838.95	0.063	843.96	0.278	1682.91	NORTH
52-OFC-N	0.493	98.42	0.063	101.82	0.275	200.24	NORTH
52-OFC-E	0.493	99.88	0.063	100.58	0.277	200.46	NORTH-EAST
52-OFC-E	0.493	580.92	0.063	594.62	0.276	1175.54	EAST
52-OFC-E	0.493	100.84	0.063	101.20	0.278	202.04	EAST
52-OFC-S	0.493	99.55	0.063	99.90	0.278	199.44	SOUTH-EAST
52-OFC-S	0.493	839.91	0.063	843.68	0.278	1683.59	SOUTH
52-OFC-S	0.493	42.58	0.063	44.31	0.274	86.90	SOUTH
52-OFC-W	0.493	42.07	0.063	43.01	0.276	85.09	SOUTH-WEST
52-OFC-W	0.493	735.51	0.063	738.23	0.278	1473.75	WEST
52-OFC-W	0.493	43.82	0.063	44.09	0.278	87.91	WEST
52-PLENUM	0.000	0.00	0.063	17.01	0.063	17.01	NORTH
52-PLENUM	0.000	0.00	0.063	327.65	0.063	327.65	NORTH
52-PLENUM	0.000	0.00	0.063	38.98	0.063	38.98	NORTH
52-PLENUM	0.000	0.00	0.063	39.03	0.063	39.03	NORTH-EAST
52-PLENUM	0.000	0.00	0.063	228.87	0.063	228.87	EAST
52-PLENUM	0.000	0.00	0.063	39.34	0.063	39.34	EAST
52-PLENUM	0.000	0.00	0.063	38.83	0.063	38.83	SOUTH-EAST
52-PLENUM	0.000	0.00	0.063	327.78	0.063	327.78	SOUTH
52-PLENUM	0.000	0.00	0.063	16.92	0.063	16.92	SOUTH

52-PLENUM	0.000	0.00	0.063	16.57	0.063	16.57	SOUTH-WEST
52-PLENUM	0.000	0.00	0.063	286.92	0.063	286.92	WEST
52-PLENUM	0.000	0.00	0.063	17.12	0.063	17.12	WEST
53-OFC-N	0.493	87.08	0.063	87.62	0.278	174.70	NORTH
53-OFC-N	0.493	1677.90	0.063	1687.92	0.278	3365.82	NORTH
53-OFC-N	0.493	196.72	0.063	198.10	0.277	394.82	NORTH
53-OFC-E	0.493	197.85	0.063	199.00	0.278	396.86	NORTH-EAST
53-OFC-E	0.493	1150.56	0.063	1184.02	0.275	2334.58	EAST
53-OFC-E	0.493	199.43	0.063	200.59	0.278	400.02	EAST
53-OFC-S	0.493	196.16	0.063	198.21	0.277	394.37	SOUTH-EAST
53-OFC-S	0.493	1679.82	0.063	1687.36	0.278	3367.17	SOUTH
53-OFC-S	0.493	85.16	0.063	88.63	0.274	173.79	SOUTH
53-OFC-W	0.493	84.15	0.063	86.03	0.276	170.18	SOUTH-WEST
53-OFC-W	0.493	1471.02	0.063	1476.47	0.278	2947.49	WEST
53-OFC-W	0.493	87.65	0.063	88.18	0.278	175.83	WEST
53-PLENUM	0.000	0.00	0.063	34.01	0.063	34.01	NORTH
53-PLENUM	0.000	0.00	0.063	655.29	0.063	655.29	NORTH
53-PLENUM	0.000	0.00	0.063	76.87	0.063	76.87	NORTH
53-PLENUM	0.000	0.00	0.063	77.26	0.063	77.26	NORTH-EAST
53-PLENUM	0.000	0.00	0.063	454.52	0.063	454.52	EAST
53-PLENUM	0.000	0.00	0.063	77.88	0.063	77.88	EAST
53-PLENUM	0.000	0.00	0.063	76.78	0.063	76.78	SOUTH-EAST
53-PLENUM	0.000	0.00	0.063	655.56	0.063	655.56	SOUTH
53-PLENUM	0.000	0.00	0.063	33.84	0.063	33.84	SOUTH
53-PLENUM	0.000	0.00	0.063	33.13	0.063	33.13	SOUTH-WEST
53-PLENUM	0.000	0.00	0.063	573.85	0.063	573.85	WEST
53-PLENUM	0.000	0.00	0.063	34.23	0.063	34.23	WEST
55-OFC-N	0.493	304.79	0.063	306.66	0.278	611.44	NORTH
55-OFC-N	0.493	5748.29	0.063	5771.05	0.278	11519.33	NORTH
55-OFC-N	0.493	700.77	0.063	722.24	0.275	1423.01	NORTH

55-OFC-E	0.493	728.01	0.063	732.17	0.278	1460.19	NORTH-EAST
55-OFC-E	0.493	4041.96	0.063	4059.46	0.278	8101.42	EAST
55-OFC-E	0.493	726.83	0.063	731.78	0.277	1458.60	EAST
55-OFC-S	0.493	739.86	0.063	755.93	0.276	1495.78	SOUTH-EAST
55-OFC-S	0.493	5741.58	0.063	5786.46	0.277	11528.03	SOUTH
55-OFC-S	0.493	298.07	0.063	310.21	0.274	608.28	SOUTH
55-OFC-W	0.493	294.52	0.063	301.10	0.276	595.62	SOUTH-WEST
55-OFC-W	0.493	5148.59	0.063	5167.63	0.278	10316.22	WEST
55-OFC-W	0.493	306.76	0.063	308.64	0.278	615.40	WEST
55-PLENUM	0.000	0.00	0.063	119.04	0.063	119.04	NORTH
55-PLENUM	0.000	0.00	0.063	2242.70	0.063	2242.70	NORTH
55-PLENUM	0.000	0.00	0.063	277.05	0.063	277.05	NORTH
55-PLENUM	0.000	0.00	0.063	284.13	0.063	284.13	NORTH-EAST
55-PLENUM	0.000	0.00	0.063	1577.42	0.063	1577.42	EAST
55-PLENUM	0.000	0.00	0.063	283.98	0.063	283.98	EAST
55-PLENUM	0.000	0.00	0.063	291.21	0.063	291.21	SOUTH-EAST
55-PLENUM	0.000	0.00	0.063	2244.40	0.063	2244.40	SOUTH
55-PLENUM	0.000	0.00	0.063	118.43	0.063	118.43	SOUTH
55-PLENUM	0.000	0.00	0.063	115.96	0.063	115.96	SOUTH-WEST
55-PLENUM	0.000	0.00	0.063	2008.47	0.063	2008.47	WEST
55-PLENUM	0.000	0.00	0.063	119.81	0.063	119.81	WEST
62-OFC-N	0.493	43.54	0.063	43.81	0.278	87.35	NORTH
62-OFC-N	0.493	790.78	0.063	793.93	0.278	1584.71	NORTH
62-OFC-N	0.493	114.27	0.063	114.78	0.278	229.05	NORTH
62-OFC-E	0.493	111.67	0.063	112.07	0.278	223.74	NORTH-EAST
62-OFC-E	0.493	547.08	0.063	561.79	0.275	1108.87	EAST
62-OFC-E	0.493	96.50	0.063	97.75	0.277	194.25	EAST
62-OFC-S	0.493	127.41	0.063	128.99	0.277	256.40	SOUTH-EAST
62-OFC-S	0.493	791.01	0.063	794.72	0.278	1585.73	SOUTH

62-OFC-S	0.493	42.58	0.063	44.31	0.274	86.90	SOUTH
62-OFC-W	0.493	42.07	0.063	43.01	0.276	85.09	SOUTH-WEST
62-OFC-W	0.493	735.51	0.063	738.23	0.278	1473.75	WEST
62-OFC-W	0.493	43.82	0.063	44.09	0.278	87.91	WEST
62-PLENUM	0.000	0.00	0.063	17.01	0.063	17.01	NORTH
62-PLENUM	0.000	0.00	0.063	308.53	0.063	308.53	NORTH
62-PLENUM	0.000	0.00	0.063	44.59	0.063	44.59	NORTH
62-PLENUM	0.000	0.00	0.063	43.56	0.063	43.56	NORTH-EAST
62-PLENUM	0.000	0.00	0.063	215.89	0.063	215.89	EAST
62-PLENUM	0.000	0.00	0.063	37.82	0.063	37.82	EAST
62-PLENUM	0.000	0.00	0.063	49.92	0.063	49.92	SOUTH-EAST
62-PLENUM	0.000	0.00	0.063	308.73	0.063	308.73	SOUTH
62-PLENUM	0.000	0.00	0.063	16.92	0.063	16.92	SOUTH
62-PLENUM	0.000	0.00	0.063	16.57	0.063	16.57	SOUTH-WEST
62-PLENUM	0.000	0.00	0.063	286.92	0.063	286.92	WEST
62-PLENUM	0.000	0.00	0.063	17.12	0.063	17.12	WEST
63-OFC-N	0.493	217.70	0.063	219.04	0.278	436.74	NORTH
63-OFC-N	0.493	3832.10	0.063	3846.82	0.278	7678.91	NORTH
63-OFC-N	0.493	644.09	0.063	646.94	0.278	1291.02	NORTH
63-OFC-E	0.493	549.34	0.063	551.85	0.278	1101.19	NORTH-EAST
63-OFC-E	0.493	2650.80	0.063	2721.78	0.275	5372.58	EAST
63-OFC-E	0.493	568.79	0.063	572.51	0.277	1141.30	EAST
63-OFC-S	0.493	620.96	0.063	632.77	0.276	1253.74	SOUTH-EAST
63-OFC-S	0.493	3832.94	0.063	3851.06	0.278	7684.00	SOUTH
63-OFC-S	0.493	212.91	0.063	221.57	0.274	434.49	SOUTH
63-OFC-W	0.493	210.37	0.063	215.07	0.276	425.45	SOUTH-WEST
63-OFC-W	0.493	3677.56	0.063	3691.17	0.278	7368.73	WEST
63-OFC-W	0.493	219.11	0.063	220.46	0.278	439.57	WEST
63-PLENUM	0.000	0.00	0.063	85.03	0.063	85.03	NORTH
63-PLENUM	0.000	0.00	0.063	1495.01	0.063	1495.01	NORTH

63-PLENUM	0.000	0.00	0.063	251.35	0.063	251.35	NORTH
63-PLENUM	0.000	0.00	0.063	214.39	0.063	214.39	NORTH-EAST
63-PLENUM	0.000	0.00	0.063	1045.99	0.063	1045.99	EAST
63-PLENUM	0.000	0.00	0.063	222.20	0.063	222.20	EAST
63-PLENUM	0.000	0.00	0.063	244.09	0.063	244.09	SOUTH-EAST
63-PLENUM	0.000	0.00	0.063	1496.00	0.063	1496.00	SOUTH
63-PLENUM	0.000	0.00	0.063	84.59	0.063	84.59	SOUTH
63-PLENUM	0.000	0.00	0.063	82.83	0.063	82.83	SOUTH-WEST
63-PLENUM	0.000	0.00	0.063	1434.62	0.063	1434.62	WEST
63-PLENUM	0.000	0.00	0.063	85.58	0.063	85.58	WEST
68-MECH	1.437	78.37	0.063	83.96	0.727	162.33	NORTH
68-MECH	1.437	1341.08	0.063	1435.33	0.727	2776.41	NORTH
68-MECH	1.437	480.53	0.101	528.17	0.738	1008.70	NORTH
68-MECH	1.437	248.93	0.063	267.25	0.726	516.18	NORTH
68-MECH	1.437	195.83	0.063	210.31	0.726	406.14	NORTH-EAST
68-MECH	1.437	75.02	0.063	81.22	0.723	156.24	EAST
68-MECH	1.437	761.40	0.063	846.99	0.714	1608.39	EAST
68-MECH	1.437	71.06	0.063	93.37	0.657	164.43	EAST
68-MECH	1.437	175.97	0.101	196.85	0.732	372.82	EAST
68-MECH	1.437	196.64	0.063	213.70	0.722	410.34	EAST
68-MECH	1.437	253.50	0.063	275.07	0.722	528.57	SOUTH-EAST
68-MECH	1.437	1331.03	0.063	1432.78	0.725	2763.81	SOUTH
68-MECH	1.437	561.74	0.101	621.40	0.736	1183.14	SOUTH
68-MECH	1.437	76.65	0.063	84.84	0.715	161.49	SOUTH
68-MECH	1.437	75.73	0.063	82.40	0.721	158.13	SOUTH-WEST
68-MECH	1.437	169.20	0.101	203.76	0.708	372.96	SOUTH-WEST
68-MECH	1.437	162.43	0.101	186.59	0.723	349.02	WEST
68-MECH	1.437	1323.92	0.063	1414.90	0.727	2738.82	WEST
68-MECH	1.437	78.88	0.063	84.50	0.727	163.38	WEST

68-MECH	0.000	0.00	0.047	453.61	0.047	453.61	ROOF
68-MECH	0.000	0.00	0.047	75.51	0.047	75.51	ROOF
68-MECH	0.000	0.00	0.047	760.75	0.047	760.75	ROOF
68-MECH	0.000	0.00	0.047	2513.97	0.047	2513.97	ROOF
68-MECH	0.000	0.00	0.047	2409.52	0.047	2409.52	ROOF
68-MECH	0.000	0.00	0.047	2524.80	0.047	2524.80	ROOF
68-MECH	0.000	0.00	0.047	866.23	0.047	866.23	ROOF
68-MECH	0.000	0.00	0.047	414.36	0.047	414.36	ROOF
68-MECH	0.000	0.00	0.047	1347.22	0.047	1347.22	ROOF
68-MECH	0.000	0.00	0.047	2250.50	0.047	2250.50	ROOF
68-MECH	0.000	0.00	0.047	346.63	0.047	346.63	ROOF
68-MECH	0.000	0.00	0.047	134.37	0.047	134.37	ROOF
68-STORAGE	0.000	0.00	0.047	340.58	0.047	340.58	ROOF
68-STAIR	0.000	0.00	0.047	322.09	0.047	322.09	ROOF
68-CORR	0.000	0.00	0.047	197.14	0.047	197.14	ROOF
68-CORR	0.000	0.00	0.047	159.05	0.047	159.05	ROOF
68-CORR	0.000	0.00	0.047	504.48	0.047	504.48	ROOF
68-ELEC	0.000	0.00	0.047	322.92	0.047	322.92	ROOF
69-CORR	1.437	13.54	0.101	98.46	0.263	112.00	NORTH
69-STORAGE	1.437	81.22	0.101	100.08	0.700	181.30	NORTH
69-STORAGE	1.437	257.18	0.101	285.60	0.734	542.78	EAST
69-WORKSHOP	1.437	433.15	0.101	470.13	0.742	903.28	EAST
69-CORR	0.493	13.54	0.101	105.04	0.146	118.58	SOUTH
69-CORR	0.493	406.08	0.101	691.10	0.246	1097.18	WEST
69-CORR	0.000	0.00	0.047	464.30	0.047	464.30	ROOF
69-OFC	0.000	0.00	0.047	183.61	0.047	183.61	ROOF
69-BMS	0.000	0.00	0.047	263.59	0.047	263.59	ROOF
69-LOCKERS	0.000	0.00	0.047	984.49	0.047	984.49	ROOF
69-CORR	0.000	0.00	0.047	448.94	0.047	448.94	ROOF
69-CORR	0.000	0.00	0.047	691.29	0.047	691.29	ROOF

69-STORAGE	0.000	0.00	0.047	342.01	0.047	342.01	ROOF
69-STORAGE	0.000	0.00	0.047	222.72	0.047	222.72	ROOF
69-CORR	0.000	0.00	0.047	124.20	0.047	124.20	ROOF
69-WORKSHOP	0.000	0.00	0.047	1160.71	0.047	1160.71	ROOF
RF-EMR	0.000	0.00	0.101	522.55	0.101	522.55	NORTH
RF-CORR	0.493	12.59	0.101	162.41	0.130	175.00	NORTH
RF-EMR	0.000	0.00	0.101	537.08	0.101	537.08	EAST
RF-STAIR	0.000	0.00	0.101	355.25	0.101	355.25	EAST
RF-STORAGE	0.000	0.00	0.101	613.20	0.101	613.20	SOUTH
RF-CORR	0.493	13.18	0.101	341.02	0.116	354.20	SOUTH
RF-STAIR	0.000	0.00	0.101	168.00	0.101	168.00	SOUTH
RF-STORAGE	0.000	0.00	0.101	442.92	0.101	442.92	WEST
RF-EMR	0.000	0.00	0.047	916.40	0.047	916.40	ROOF
RF-STORAGE	0.000	0.00	0.047	886.16	0.047	886.16	ROOF
RF-CORR	0.000	0.00	0.047	637.56	0.047	637.56	ROOF
RF-STAIR	0.000	0.00	0.047	195.26	0.047	195.26	ROOF
RF2-EMR	0.000	0.00	0.101	142.31	0.101	142.31	NORTH
RF2-STAIR	0.000	0.00	0.101	118.32	0.101	118.32	NORTH
RF2-STAIR	0.000	0.00	0.101	436.28	0.101	436.28	EAST
RF2-EMR	0.000	0.00	0.101	297.04	0.101	297.04	SOUTH
RF2-STAIR	0.000	0.00	0.101	118.32	0.101	118.32	SOUTH
RF2-EMR	0.000	0.00	0.101	436.16	0.101	436.16	WEST
RF2-EMR	0.000	0.00	0.047	754.15	0.047	754.15	ROOF
RF2-EMR	0.000	0.00	0.047	82.96	0.047	82.96	ROOF
RF2-STAIR	0.000	0.00	0.047	369.47	0.047	369.47	ROOF

1 DOE 2.1E

MANHATTAN WEST

DOE-2.1E-121 Thu Jan 29 18:21:33 2015SDL RUN 1

ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- LV-D DETAILS OF EXTERIOR SURFACES IN THE PROJECT

WEATHER FILE- NEW YORK CENTRAL NY

----- (CONTINUED) -----

AVERAGE

AVERAGE

AVERAGE U-VALUE

WINDOW

WALL

WINDOW+WALL

	U-VALUE/WINDOWS (BTU/HR-SQFT-F)	U-VALUE/WALLS (BTU/HR-SQFT-F)	WALLS+WINDOWS (BTU/HR-SQFT-F)	AREA (SQFT)	AREA (SQFT)	AREA (SQFT)
NORTH	0.556	0.065	0.267	74938.0	107393.8	182331.8
NORTH-EAST	0.532	0.063	0.260	4738.4	6553.9	11292.3
EAST	0.532	0.064	0.256	51317.5	74208.3	125525.7
SOUTH-EAST	0.540	0.063	0.263	5108.1	7108.1	12216.2
SOUTH	0.555	0.065	0.269	70581.8	99308.9	169890.7
SOUTH-WEST	0.657	0.065	0.305	3166.8	4652.1	7818.9
WEST	0.525	0.069	0.239	49261.1	83097.5	132358.7
FLOOR	0.000	0.063	0.063	0.0	985.5	985.5
ROOF	0.000	0.047	0.047	0.0	108112.5	108112.5
ALL WALLS	0.545	0.066	0.260	259111.7	382322.6	641434.3
WALLS+ROOFS	0.545	0.062	0.229	259111.7	490435.0	749546.8
UNDERGRND	0.000	0.240	0.240	0.0	131802.5	131802.5
BUILDING	0.545	0.099	0.231	259111.7	622237.5	881349.2

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Apr 23 10:08:02 2015LDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL, L
REPORT- LV-I DETAILS OF CONSTRUCTIONS OCCURRING IN THE PROJECT WEATHER FILE- NEW YORK CENTRAL NY

NUMBER OF CONSTRUCTIONS 13 DELAYED 13 QUICK 0

CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)	SURFACE ABSORPTANCE	SURFACE ROUGHNESS INDEX	SURFACE TYPE	NUMBER OF RESPONSE FACTORS
CL-CON	0.805	0.70	3	DELAYED	4
CL-ADIAB-CON	0.805	0.70	3	DELAYED	4
IW-CON	0.355	0.70	3	DELAYED	4
IW-ADIAB-CON	0.355	0.70	3	DELAYED	4
FL-CON	0.423	0.70	3	DELAYED	5
FL-ADIAB-CON	0.423	0.70	3	DELAYED	5
EW-CON	0.065	0.70	3	DELAYED	8
EW-1-CON	0.065	0.70	3	DELAYED	8
EW-STOREFT-CON	0.065	0.70	3	DELAYED	8
EW-BASEMENT-CON	0.106	0.70	3	DELAYED	11
RF-CON	0.048	0.70	3	DELAYED	10
SLAB-ON-GRADE	0.234	0.70	3	DELAYED	74
UW-CON	0.234	0.70	3	DELAYED	74

REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEW YORK CENTRAL NY

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO												TOTAL	ANNUAL	FALSE	ELEC	THERMAL											
	0	--	10	--	20	--	30	--	40	--	50	--	60	--	70	--	80	--	90	--	100	-	110+	-----	(MBTU)	(MBTU)	(KWH)	(MBTU)
HW-BOILER	2827		192		372		903		528		162		54		7		3		2		0		5050	44300.1	0.0		0.	44300.1
	2827		192		372		903		528		162		54		7		3		2		0							
ELEC-DHW-HEATER	5748		1049		1314		524		125		0		0		0		0		0		0		8760	2186.3	0.0	852345.		0.0
	5748		1049		1314		524		125		0		0		0		0		0		0							
OPEN-CENT-CHLR	1076		951		316		227		201		685		880		985		995		720		0		7036	71725.5	0.0	2960972.		0.0
	2944		1276		1307		729		434		238		83		19		4		2		0							
ABSORG-CHLR	0		0		28		181		268		498		329		351		175		4026		0		5856	11823.8	0.0	28386.		10589.3
	0		0		28		181		268		498		329		351		175		4026		0							
COOLING-TWR	2499		990		1112		1180		1042		1017		723		167		25		5		0		8760	104805.2	0.0	1671169.		0.0
	4782		1627		561		471		339		433		456		91		0		0		0							

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 152851. KWH
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 555492. KWH
 CONDENSER WATER PUMP ELECTRICAL USE = 1009922. KWH
 TOWER OR CONDENSER FAN ELECTRICAL USE = 661196. KWH

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	44300.1	95.3
ELEC-DHW-HEATER	2186.3	4.7
ABSORG-CHLR	0.1	0.0
	=====	=====
LOAD SATISFIED	46486.5	100.0
TOTAL LOAD ON PLANT	46486.7	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
OPEN-CENT-CHLR	71725.5	85.8
ABSORG-CHLR	11823.8	14.2
	=====	=====
LOAD SATISFIED	83549.3	100.0
TOTAL LOAD ON PLANT	83549.1	
ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	30745132.0	100.0
	=====	=====
LOAD SATISFIED	30745132.0	100.0
TOTAL LOAD ON PLANT	30745144.0	

TOWER ABOVE DESIGN TEMPERATURE OF 88.F 5 HOURS
MAXIMUM TOWER EXIT TEMPERATURE = 90.F

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
-----	-----	-----	-----	-----	-----
HEATING LOADS	46486.7	46486.5	0.000	0.000	0
COOLING LOADS	83549.1	83549.3	0.000	0.000	0
ELECTRICAL LOADS	104932.2	104932.2	0.000	0.000	0

REPORT- PS-E MONTHLY ENERGY END-USE SUMMARY

WEATHER FILE- NEW YORK CENTRAL NY

OELECTRICAL END-USES IN KWH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 AREA LIGHTS	856395.	787154.	901044.	867980.	855814.	867857.	871197.	885377.	852614.	856070.	837668.	870644.	10309814.
MAX KW	1807.4	1807.4	1803.3	1797.3	1797.3	1797.3	1797.3	1797.3	1797.3	1799.8	1807.4	1807.4	1807.4
DAY/HR	4/18	2/18	17/18	1/10	3/10	1/10	1/10	2/10	1/10	26/18	1/18	1/18	
0MISC EQUIPMT	775476.	707679.	801056.	773169.	775476.	773169.	785193.	791340.	763453.	775476.	753737.	781624.	9256847.
MAX KW	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0	1586.0
DAY/HR	4/10	1/10	1/10	1/10	3/10	1/10	1/10	2/10	1/10	1/10	1/10	1/10	
0 SPACE COOL	158394.	187177.	295646.	140327.	186493.	349206.	490566.	423887.	257022.	109637.	216898.	189466.	3004718.
MAX KW	1037.5	1276.7	1485.4	1087.3	1410.7	1405.1	1936.5	2448.4	1444.4	923.8	1283.3	1169.6	2448.4
DAY/HR	14/14	23/13	16/13	28/16	28/18	23/18	23/18	17/16	3/16	27/13	18/14	16/15	
0 HEAT REJECT	79886.	83940.	121782.	79986.	125488.	215024.	286704.	254800.	165862.	74096.	95877.	87692.	1671138.
MAX KW	308.8	478.4	603.1	561.8	635.1	635.1	708.5	781.8	635.1	474.6	506.9	385.9	781.8
DAY/HR	14/14	1/15	16/12	27/14	28/16	2/15	12/15	17/14	3/13	1/16	10/12	15/13	
0PUMPS & MISC	67177.	60571.	68823.	60687.	55536.	49049.	57789.	54320.	44833.	59536.	64810.	66364.	709495.
MAX KW	146.4	151.2	166.5	132.0	150.9	128.4	155.7	186.2	126.0	130.5	158.9	143.8	186.2
DAY/HR	23/ 8	23/13	16/12	28/17	28/17	23/17	23/18	17/15	3/16	30/14	18/14	16/15	
0 VENT FANS	341794.	309584.	342393.	322938.	317549.	361248.	380303.	373634.	333888.	316093.	303441.	340278.	4043142.
MAX KW	748.9	749.7	750.3	824.3	974.0	1011.6	1032.8	1100.6	948.6	809.8	759.6	748.4	1100.6
DAY/HR	27/10	2/10	17/10	28/18	10/16	22/16	21/18	17/16	7/17	1/16	2/10	15/10	
0DOMHOT WATER	74821.	71935.	84789.	80268.	71947.	71182.	66084.	65551.	62691.	63490.	66221.	73365.	852344.
MAX KW	369.4	382.8	383.9	377.5	352.0	326.5	304.4	290.4	289.2	300.6	322.1	346.8	383.9
DAY/HR	4/13	1/13	1/13	1/13	3/13	1/13	1/13	2/13	1/13	1/13	1/13	1/13	
0 EXT LIGHTS	3302.	2762.	2996.	2899.	2802.	2472.	2690.	2939.	2899.	2996.	3084.	3439.	35280.
MAX KW	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
DAY/HR	1/ 1	1/ 1	1/ 1	1/ 1	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 1	1/ 1	
0 EXT MISC	71859.	65843.	75136.	72448.	71859.	72448.	72883.	74112.	71219.	71859.	69990.	72678.	862336.
MAX KW	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8	204.8
DAY/HR	4/ 7	1/ 7	1/ 7	1/ 7	3/ 7	1/ 7	1/ 7	2/ 7	1/ 7	1/ 7	1/ 7	1/ 7	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
0 TOTAL KWH	2429104.	2276646.	2693666.	2400702.	2462964.	2761654.	3013409.	2925960.	2554481.	2329253.	2411726.	2485551.	30745114.

REPORT- PS-E MONTHLY ENERGY END-USE SUMMARY

WEATHER FILE- NEW YORK CENTRAL NY

------(CONTINUED)-----

OFUEL END-USES IN MBTU

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 SPACE HEAT	10071.2	7812.7	7059.8	2687.7	671.6	0.0	0.0	0.0	15.1	1810.2	5651.4	8520.5	44300.2
MAX MBTU	52.177	35.728	27.775	22.325	17.431	0.000	0.000	0.000	15.088	21.702	27.176	36.236	52.177
DAY/HR	23/ 8	6/ 8	4/10	7/ 9	4/22	0/ 0	0/ 0	0/ 0	20/ 8	23/14	27/ 8	11/14	
0 SPACE COOL	0.0	0.0	0.0	1166.7	1332.0	1422.3	1505.6	1494.9	1364.3	1234.7	1068.8	0.0	10589.3
MAX MBTU	0.000	0.000	0.000	2.093	2.253	2.165	2.287	2.372	2.192	2.061	2.059	0.000	2.372
DAY/HR	0/ 0	0/ 0	0/ 0	28/14	31/15	29/20	24/14	17/16	3/15	18/19	8/ 7	0/ 0	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
0 TOTAL MBTU	10071.2	7812.7	7059.8	3854.4	2003.6	1422.3	1505.6	1494.9	1379.4	3044.8	6720.2	8520.5	54889.4

REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- NEW YORK CENTRAL NY

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO													TOTAL	ANNUAL	FALSE	ELEC	THERMAL											
														HOURS	LOAD	LOAD	USED	USED											
	0	--	10	--	20	--	30	--	40	--	50	--	60	--	70	--	80	--	90	--	100	-	110+	-----	-----	-----	-----		
HW-BOILER	1424		579		580		396		219		108		56		24		1		4		1		1		3392	423.4	0.0	0.	423.4
	1424		579		580		396		219		108		56		24		1		4		1		1						
DHW-HEATER	8760		0		0		0		0		0		0		0		0		0		0		0		8760	242.9	0.0	0.	242.9
	8760		0		0		0		0		0		0		0		0		0		0		0						

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 1320. KWH
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 0. KWH
 CONDENSER WATER PUMP ELECTRICAL USE = 0. KWH
 TOWER OR CONDENSER FAN ELECTRICAL USE = 0. KWH

NOTES TO TABLE

- 1) THE FIRST PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE HOURLY OPERATING CAPACITY
- 2) THE SECOND PART LOAD ENTRY FOR EACH PIECE OF EQUIPMENT IS THE HOURLY LOAD DIVIDED BY THE TOTAL INSTALLED CAPACITY

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	423.4	63.5
DHW-HEATER	242.9	36.5
	=====	=====
LOAD SATISFIED	666.3	100.0
TOTAL LOAD ON PLANT	666.3	

ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	427507.8	100.0
	=====	=====
LOAD SATISFIED	427507.8	100.0
TOTAL LOAD ON PLANT	427494.9	

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
-----	-----	-----	-----	-----	-----
HEATING LOADS	666.3	666.3	0.000	0.000	0
ELECTRICAL LOADS	1459.0	1459.1	0.000	0.000	0

ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- PS-E MONTHLY ENERGY END-USE SUMMARY

WEATHER FILE- NEW YORK CENTRAL NY

OELECTRICAL END-USES IN KWH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 AREA LIGHTS	18505.	16714.	18505.	17908.	18505.	17908.	18505.	18505.	17908.	18505.	17908.	18505.	217886.
MAX KW	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
DAY/HR	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	
0MISC EQUIPMT	5508.	4975.	5508.	5330.	5508.	5330.	5508.	5508.	5330.	5508.	5330.	5508.	64847.
MAX KW	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
DAY/HR	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	1/ 9	
0 SPACE COOL	301.	344.	2286.	3563.	13108.	18256.	24493.	21694.	16783.	8183.	2757.	171.	111940.
MAX KW	27.8	30.8	37.5	50.9	92.3	60.4	97.6	100.8	61.2	40.8	30.8	30.8	100.8
DAY/HR	23/ 9	1/13	13/16	28/14	30/14	27/14	24/15	17/15	4/15	17/14	1/10	24/14	
0PUMPS & MISC	305.	239.	207.	145.	45.	0.	0.	0.	0.	115.	182.	268.	1506.
MAX KW	1.2	0.9	0.8	0.5	0.4	0.0	0.0	0.0	0.1	0.4	0.7	0.9	1.2
DAY/HR	23/ 9	6/24	7/ 6	7/ 9	1/ 7	0/ 0	0/ 0	0/ 0	20/ 2	10/ 7	27/ 9	11/ 9	
0 VENT FANS	2297.	2031.	2245.	2184.	2722.	2979.	3570.	3386.	2927.	2521.	2224.	2243.	31329.
MAX KW	5.4	5.8	6.7	7.8	12.4	10.1	13.1	13.3	11.4	9.6	7.8	5.3	13.3
DAY/HR	23/ 6	18/14	16/13	28/14	31/14	22/15	25/16	17/15	4/15	17/15	2/14	24/14	
0DOMHOT WATER	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MAX KW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAY/HR	1/ 1	1/ 1	1/ 1	1/ 1	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 1	1/ 1	
0 TOTAL KWH	26916.	24303.	28751.	29130.	39888.	44473.	52076.	49093.	42949.	34832.	28402.	26695.	427508.

OFUEL END-USES IN MBTU

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 SPACE HEAT	138.2	84.9	43.4	14.9	3.0	0.0	0.0	0.0	0.0	9.1	31.7	98.2	423.4
MAX MBTU	0.673	0.522	0.458	0.243	0.120	0.000	0.000	0.000	0.000	0.174	0.399	0.482	0.673
DAY/HR	23/ 9	6/23	7/ 6	7/ 9	5/ 9	0/ 0	0/ 0	0/ 0	0/ 0	26/ 9	27/ 9	11/ 9	
0DOMHOT WATER	21.6	21.1	25.3	23.8	20.5	20.4	18.2	18.0	17.2	17.3	18.5	21.0	242.9
MAX MBTU	0.131	0.136	0.136	0.134	0.124	0.115	0.106	0.101	0.101	0.105	0.113	0.122	0.136
DAY/HR	4/13	1/13	1/13	1/13	3/13	1/13	1/13	2/13	1/13	1/13	1/13	1/13	
0 TOTAL MBTU	159.8	106.0	68.7	38.8	23.4	20.4	18.2	18.0	17.2	26.3	50.2	119.2	666.3

ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- PV-A EQUIPMENT SIZES

WEATHER FILE- NEW YORK CENTRAL NY

[illegible]

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REPORT- PV-A EQUIPMENT SIZES

WEATHER FILE- NEW YORK CENTRAL NY

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