

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 MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015PDL RUN 1
Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
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	19625.8	31358.8	0.0	0.0
MISC EQUIPMT	15952.0	28155.1	0.0	0.0
SPACE HEAT	0.0	0.0	21175.3	12781.5
SPACE COOL	9307.0	8181.8	0.0	3581.5
HEAT REJECT	889.1	1430.2	0.0	0.0
PUMPS & MISC	4612.6	5683.1	0.0	0.0
VENT FANS	14758.4	16990.0	0.0	0.0
DOMHOT WATER	1765.7	4129.1	0.0	0.0
EXT LIGHTS	56.1	213.4	0.0	0.0
EXT MISC	1984.0	3189.1	0.0	0.0
COGEN SURPLS	0.3	-0.8	0.0	0.0
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TOTAL	68950.9	99329.7	21175.3	16363.0

TOTAL SITE ENERGY 189456.00 MBTU 88.8 KBTU/SQFT-YR GROSS-AREA 88.8 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY 327378.56 MBTU 153.4 KBTU/SQFT-YR GROSS-AREA 153.4 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 2.6
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

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

REPORT- BEPU BUILDING ENERGY PERFORMANCE SUMMARY (UTILITY UNITS)

ENERGY TYPE: SITE UNITS:	ELECTRICITY KWH	NATURAL-GAS THERM	FUEL-OIL MMBTU	RECOVERED MBTU
CATEGORY OF USE -----				
AREA LIGHTS	5750358.	313588.	0.	0.
MISC EQUIPMT	4673922.	281550.	0.	0.
SPACE HEAT	0.	0.	22527.	12782.
SPACE COOL	2726949.	81818.	0.	3581.
HEAT REJECT	260503.	14302.	0.	0.
PUMPS & MISC	1351505.	56831.	0.	0.
VENT FANS	4324224.	169900.	0.	0.
DOMHOT WATER	517345.	41291.	0.	0.
EXT LIGHTS	16435.	2134.	0.	0.
EXT MISC	581313.	31891.	0.	0.
COGEN SURPLS	75.	-8.	0.	0.
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TOTAL	20202624.	993297.	22527.	16363.

TOTAL ELECTRICITY	20202624. KWH	9.464 KWH	/SQFT-YR GROSS-AREA	9.464 KWH	/SQFT-YR NET-AREA
TOTAL NATURAL-GAS	993297. THERM	0.465 THERM	/SQFT-YR GROSS-AREA	0.465 THERM	/SQFT-YR NET-AREA
TOTAL FUEL-OIL	22527. MMBTU	0.011 MMBTU	/SQFT-YR GROSS-AREA	0.011 MMBTU	/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 2.6
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

METERED

TOTAL

VIRTUAL

UTILITY-RATE	RESOURCE	METERS	ENERGY UNITS/YR	CHARGE (\$)	RATE (\$/UNIT)	RATE USED ALL YEAR?
OELEC-SALE	ELEC-NET-SALE	1 2 3 4 5	0. KWH	0.	0.0000	YES
OSC9-ELEC-TARIFF	ELECTRICITY	1 2 3 4 5	20202648. KWH	4844466.	0.2398	YES
ODES-STM-RATE	FUEL-OIL	1 2	22527. MMBTU	503131.	22.3346	YES
ORDR-H-GAS-TARIFF	NATURAL-GAS	5	993298. THERM	832733.	0.8384	YES
0				=====		
0				6180331.		

ENERGY COST/GROSS BLDG AREA: 2.90
ENERGY COST/NET BLDG AREA: 2.90

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015PDL RUN 2
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- BEPS BUILDING ENERGY PERFORMANCE SUMMARY WEATHER FILE- NEW YORK CENTRAL NY

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

AREA LIGHTS	377.3	0.0
MISC EQUIPMT	112.3	0.0
SPACE HEAT	0.0	375.5
SPACE COOL	466.2	0.0
PUMPS & MISC	4.9	0.0
VENT FANS	111.0	0.0
DOMHOT WATER	0.0	254.0
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TOTAL	1071.8	629.5

TOTAL SITE ENERGY	1701.29 MBTU	0.8 KBTU/SQFT-YR GROSS-AREA	0.8 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	3845.17 MBTU	1.8 KBTU/SQFT-YR GROSS-AREA	1.8 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 MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015PDL RUN 2
Alnp1: 1200 kW:250 TR 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	110563.	0.
MISC EQUIPMT	32911.	0.
SPACE HEAT	0.	399.
SPACE COOL	136608.	0.
PUMPS & MISC	1437.	0.
VENT FANS	32512.	0.
DOMHOT WATER	0.	270.
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TOTAL	314032.	670.

TOTAL ELECTRICITY	314032. KWH	0.147 KWH	/SQFT-YR GROSS-AREA	0.147 KWH	/SQFT-YR NET-AREA
TOTAL FUEL-OIL	670. 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.

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015EDL RUN 2
 Alnp1: 1200 kw:250 TR 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?
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OELEC-SALE	ELEC-NET-SALE	1 2 3 4 5	0. KWH	0.	0.0000	YES
OSC9-ELEC-TARIFF	ELECTRICITY	1 2 3 4 5	314037. KWH	75136.	0.2393	YES
ODES-STM-RATE	FUEL-OIL	1 2	670. MMBTU	14026.	20.9433	YES
ORDR-H-GAS-TARIFF	NATURAL-GAS	5	0. THERM	5501.	0.0000	YES
0				=====		
0				94663.		

ENERGY COST/GROSS BLDG AREA: 0.04

ENERGY COST/NET BLDG AREA: 0.04

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-B-12 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC-B-12	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)
7000.	5.012	2.2	0.	0.000	0.0	0.020	186.640	0.853	0.000	0.26	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		7000.	0.	0.000	0.020	140.	0.00	0.00	128.52	-415.80	-378.00 1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-B-3 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC-B-3	PVAVS	1.000	12234.3	2.							
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)
15000.	13.204	2.7	0.	0.000	0.0	0.300	732.271	0.636	-1090.980	0.26	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		1456.	0.	0.000	0.300	437.	0.00	0.00	26.73	-86.48	-78.61 1.0
B-MER-1		7912.	0.	0.000	0.300	2374.	0.00	0.00	145.26	-469.96	-427.24 1.0
B-MER-2		5632.	0.	0.000	0.300	1690.	0.00	0.00	103.41	-334.56	-304.15 1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS HV-5-1-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
HV-5-1-SYS	PVAVS	1.000	11000.0	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)
11000.	12.792	3.6	0.	0.000	0.0	1.000	841.404	1.000	-1251.173	0.36	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
HV-5-1-ZONE	11000.	0.	0.000	1.000	11000.	0.00	0.00	273.24	-653.40	-534.60	1.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1 Alnpl: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL REPORT- SV-A SYSTEM DESIGN PARAMETERS HV-5-257-SYS WEATHER FILE- NEW YORK CENTRAL NY											
SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
HV-5-257-SYS	PVAVS	1.000	14400.0	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)
14400.	16.745	3.6	0.	0.000	0.0	1.000	1101.474	1.000	-1637.899	0.36	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
HV-5-257-ZONE	14400.	0.	0.000	1.000	14400.	0.00	0.00	357.70	-855.36	-699.84	1.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1 Alnpl: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL REPORT- SV-A SYSTEM DESIGN PARAMETERS HV-5-3-SYS WEATHER FILE- NEW YORK CENTRAL NY											
SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
HV-5-3-SYS	PVAVS	1.000	2400.0	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)
2400.	2.791	3.6	0.	0.000	0.0	1.000	183.579	1.000	-272.983	0.36	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
HV-5-3-ZONE	2400.	0.	0.000	1.000	2400.	0.00	0.00	59.62	-142.56	-116.64	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-B-4567 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC-B-4567	PVAVS	1.000	5408.0	39.							
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)
3000.	2.281	2.4	0.	0.000	0.0	0.800	149.183	0.636	0.000	0.24	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)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
B-OFFICE	2474.	0.	0.000	0.350	601.	0.00	0.00	53.44	-146.96	-101.54	1.0
B-LOCKERS	526.	0.	0.000	0.350	171.	0.00	0.00	11.36	-31.24	-21.58	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS HV-5-4-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
HV-5-4-SYS	PVAVS	1.000	2400.0	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)
2400.	2.791	3.6	0.	0.000	0.0	1.000	183.579	1.000	-272.983	0.36	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
HV-5-4-ZONE	2400.	0.	0.000	1.000	2400.	0.00	0.00	59.62	-142.56	-116.64	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-B1-1 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC-B1-1	PVAVS	1.000	3157.1	23.							

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)	
4200.	3.193	2.4	0.	0.000	0.0	0.571	152.361	0.701	0.000	0.26	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		2140.	0.	0.000	0.350	322.	0.00	0.00	46.23	-127.12	-87.83	1.0
B1-CORR		2060.	0.	0.000	0.350	0.	0.00	0.00	44.49	-122.36	-84.54	1.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1 Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-1-1 WEATHER FILE- NEW YORK CENTRAL NY												
SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
AC-1-1	PVAVS	1.000	10174.9	203.								
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)	
15000.	13.229	2.7	0.	0.000	0.0	0.160	777.065	0.634	0.000	0.26	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
G-RETAIL-W		2455.	0.	0.000	0.350	736.	0.00	0.00	53.02	-145.81	-100.74	1.0
G-RETAIL-S		10569.	0.	0.000	0.350	3171.	0.00	0.00	228.29	-627.79	-433.74	1.0
G-RETAIL-N		1976.	0.	0.000	0.350	593.	0.00	0.00	42.69	-117.40	-81.12	1.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1 Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-1-2 WEATHER FILE- NEW YORK CENTRAL NY												
SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
AC-1-2	PVAVS	1.000	570.1	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)	
2500.	1.729	2.1	0.	0.000	0.0	0.960	87.837	0.713	0.000	0.26	0.20	
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
G-VISITOR	2500.	0.	0.000	0.350	228.	0.00	0.00	54.00	-148.50	-102.60	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
Alnpl: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-2-1 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC-2-1	PVAVS	1.000	905.7	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)
2500.	1.729	2.1	0.	0.000	0.0	0.960	71.263	0.813	0.000	0.26	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	
2-MECH	2500.	0.	0.000	0.350	50.	0.00	0.00	45.90	-148.50	-135.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
Alnpl: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-2-2AB WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC-2-2AB	PVAVS	1.000	1325.3	9.							
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)
1500.	0.569	1.2	0.	0.000	0.0	1.000	70.385	0.648	0.000	0.26	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	
2-CORR	1500.	0.	0.000	0.350	80.	0.00	0.00	32.40	-89.10	-61.56	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
Alnpl: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-3-1 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC-3-1	PVAVS	1.000	2605.4	19.							
SUPPLY FAN	ELEC	DELTA-T	RETURN FAN	ELEC	DELTA-T	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR

ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION RATE	HEATING CAPACITY	ADDITION RATE	MULTIPLIER	
NAME	(CFM)	(CFM)	(KW)	RATIO	(CFM)	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)		
3-CORR	1800.	0.	0.000	0.350	156.	0.00	0.00	38.88	-106.92	-73.87	1.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1											
Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL											
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-4-134 WEATHER FILE- NEW YORK CENTRAL NY											

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1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
  Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-4-2 WEATHER FILE- NEW YORK CENTRAL NY

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1 DOE 2.1E                MANHATTAN WEST                DOE-2.1E-121  Thu Jul 16 15:16:07 2015SDL RUN 1
  Alnp1: 1200 kW:250 TR    SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A  SYSTEM DESIGN PARAMETERS                AC-4-5                WEATHER FILE- NEW YORK CENTRAL NY

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SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
AC-4-5	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)	
1800.	1.056	1.8	0.	0.000	0.0	0.020	46.256	0.873	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		1800.	0.	0.000	0.020	36.	0.00	0.00	33.05	-106.92	-97.20	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC4-6-7AB WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
AC4-6-7AB	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)	
70000.	68.761	3.0	75000.	29.779	1.2	0.046	2827.272	0.668	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		31873.	0.	0.000	0.350	845.	0.00	0.00	688.46	-1893.26	-1308.07	1.0
G-LOBBY-S		22061.	0.	0.000	0.350	962.	0.00	0.00	476.52	-1310.44	-905.40	1.0
G-ELEV-LOBBY		4566.	0.	0.000	0.350	157.	0.00	0.00	98.62	-271.21	-187.38	1.0
G-LOBBY-N		11500.	0.	0.000	0.350	1226.	0.00	0.00	248.40	-683.10	-471.96	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-5-1234 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC-5-1234	PVAVS	1.000	4403.4	31.							
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)

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-CORR	3000.	0.	0.000	0.350	60.	0.00	0.00	64.80	-178.20	-123.12	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS HV-5-6-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
HV-5-6-SYS	PVAVS	1.000	4000.0	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)
4000.	4.651	3.6	0.	0.000	0.0	1.000	305.965	1.000	-454.972	0.36	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
HV-5-6-ZONE	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-5-5 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
AC-5-5	PVAVS	1.000	1835.1	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)
2800.	1.643	1.8	0.	0.000	0.0	1.000	85.385	0.776	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
5-ELEC	2800.	0.	0.000	0.020	56.	0.00	0.00	51.41	-166.32	-151.20	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-5-6789 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
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SUPPLY			RETURN			OUTSIDE	COOLING		HEATING	COOLING	HEATING
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)
3600.	1.310	1.1	0.	0.000	0.0	0.020	92.327	0.869	0.000	0.28	0.20

ZONE	SUPPLY	EXHAUST		MINIMUM	OUTSIDE	COOLING	EXTRACTION		HEATING	ADDITION	
NAME	FLOW	FLOW	FAN	FLOW	AIR FLOW	CAPACITY	SENSIBLE	RATE	CAPACITY	RATE	MULTIPLIER
	(CFM)	(CFM)	(KW)	RATIO	(CFM)	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	
5-MEETME	3600.	0.	0.000	0.020	72.	0.00	0.00	66.10	-213.84	-194.40	1.0

1	DOE 2.1E	MANHATTAN WEST	DOE-2.1E-121	Thu Jul 16 15:16:07 2015	SDL RUN	1
	Alnp1: 1200 kW:250 TR	SIM: VIRIDIAN ENERGY & ENVIRONMENTAL				
	REPORT- SV-A SYSTEM DESIGN PARAMETERS	BOH-SYS		WEATHER FILE- NEW YORK CENTRAL	NY	

SYSTEM	SYSTEM	ALTITUDE	FLOOR AREA	MAX
NAME	TYPE	MULTIPLIER	(SQFT)	PEOPLE

BOH-SYS	PVAVS	1.000	19216.8	121.
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SUPPLY			RETURN			OUTSIDE	COOLING		HEATING	COOLING	HEATING
FAN	ELEC	DELTA-T	FAN	ELEC	DELTA-T	AIR	CAPACITY	SENSIBLE	CAPACITY	EIR	EIR
(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)
19466.	14.798	2.4	19466.	5.483	0.9	0.022	621.303	0.755	0.000	0.26	0.20

[illegible]

B-CORR-1	3154.	0.	0.000	0.350	0.	0.00	0.00	68.12	-187.33	-129.43	1.0
B-CORR-2	6493.	0.	0.000	0.350	0.	0.00	0.00	140.26	-385.70	-266.49	1.0
G-CORR-2	739.	0.	0.000	0.350	44.	0.00	0.00	15.96	-43.89	-30.32	1.0
G-CORR	934.	0.	0.000	0.350	40.	0.00	0.00	20.18	-55.50	-38.35	1.0
5-PUMP	2793.	0.	0.000	0.350	0.	0.00	0.00	51.29	-165.93	-150.84	1.0
68-CORR	2638.	0.	0.000	0.350	157.	0.00	0.00	56.98	-156.68	-108.25	1.0
69-CORR	1904.	0.	0.000	0.350	143.	0.00	0.00	41.12	-113.09	-78.14	1.0
RF-CORR	811.	0.	0.000	0.350	49.	0.00	0.00	17.51	-48.17	-33.28	1.0
SHAFT	0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0
3-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 Jul 16 15:16:07 2015SDL RUN 1
  Alnp1: 1200 kW:250 TR    SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A  SYSTEM DESIGN PARAMETERS                RETAIL-SYS                WEATHER FILE- NEW YORK CENTRAL NY

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SYSTEM NAME		SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE																	
RETAIL-SYS		PVAVS		1.000		10483.6		210.																	
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)			
27764.		28.025		3.1		0.		0.000		0.0		0.121		1113.591		0.631		0.000		0.36		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	
2-RETAIL-N				3524.		0.		0.000		0.301		415.		0.00		0.00		76.13		-209.35		-144.65		1.0	
2-RETAIL-W				5412.		0.		0.000		0.301		1732.		0.00		0.00		116.90		-321.49		-222.12		1.0	
2-RETAIL-S				18827.		0.		0.000		0.301		1208.		0.00		0.00		406.67		-1118.34		-772.67		1.0	
1 DOE 2.1E				MANHATTAN WEST				DOE-2.1E-121				Thu Jul 16 15:16:07				2015SDL RUN				1					
Alnp1: 1200 kW:250 TR				SIM: VIRIDIAN ENERGY & ENVIRONMENTAL																					
REPORT- SV-A				SYSTEM DESIGN PARAMETERS				6-DOAS-SYS				WEATHER FILE- NEW YORK CENTRAL				NY									
SYSTEM NAME		SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE																	
6-DOAS-SYS		PVAVS		1.000		4000.0		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)			
4000.		2.371		1.8		0.		0.000		0.0		1.000		294.848		1.000		-463.653		0.36		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				4000.		0.		0.000		1.000		4000.		0.00		0.00		99.36		-237.60		-194.40		1.0	
1 DOE 2.1E				MANHATTAN WEST				DOE-2.1E-121				Thu Jul 16 15:16:07				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)			
25000.		28.009		3.5		0.		0.000		0.0		0.160		1224.002		0.620		0.000		0.26		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	2347.	0.	0.000	0.250	375.	0.00	0.00	58.29	-147.00	-96.31	1.0
6-OFC-W	2559.	0.	0.000	0.250	409.	0.00	0.00	63.57	-160.30	-105.02	1.0
6-OFC-S	6930.	0.	0.000	0.250	1109.	0.00	0.00	172.13	-434.08	-284.40	1.0
6-OFC-E	4817.	0.	0.000	0.250	771.	0.00	0.00	119.65	-301.73	-197.68	1.0
6-OFC-N	3826.	0.	0.000	0.250	612.	0.00	0.00	95.04	-239.67	-157.02	1.0
6-CORR	787.	0.	0.000	0.250	126.	0.00	0.00	19.55	-49.31	-32.31	1.0
6-RESTRMS	1540.	0.	0.000	0.250	246.	0.00	0.00	38.25	-96.46	-63.20	1.0
6-ELEV-LOBBY	2194.	0.	0.000	0.250	351.	0.00	0.00	54.51	-137.46	-90.06	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 Jul 16 15:16:07 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	PVAVS	1.000	48000.0	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)
48000.	28.455	1.8	0.	0.000	0.0	1.000	3538.182	1.000	-5563.834	0.36	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	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	12.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 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)

300000.	336.108	3.5	0.	0.000	0.0	0.160	14917.476	0.618	0.000	0.26	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	
7-OFC-CORE	3629.	0.	0.000	0.250	581.	0.00	0.00	90.14	-227.30	-148.92	12.0	
7-OFC-W	2774.	0.	0.000	0.250	444.	0.00	0.00	68.90	-173.74	-113.83	12.0	
7-OFC-S	6619.	0.	0.000	0.250	1059.	0.00	0.00	164.42	-414.63	-271.65	12.0	
7-OFC-E	4533.	0.	0.000	0.250	725.	0.00	0.00	112.61	-283.97	-186.05	12.0	
7-OFC-N	3311.	0.	0.000	0.250	530.	0.00	0.00	82.23	-207.37	-135.86	12.0	
7-CORR	720.	0.	0.000	0.250	115.	0.00	0.00	17.88	-45.09	-29.54	12.0	
7-RESTRMS	1408.	0.	0.000	0.250	225.	0.00	0.00	34.98	-88.21	-57.79	12.0	
7-ELEV-LOBBY	2007.	0.	0.000	0.250	321.	0.00	0.00	49.84	-125.69	-82.35	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 Jul 16 15:16:07 2015SDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 19-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
19-DOAS-SYS	PVAVS		1.000	8000.0		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)	
8000.	4.743	1.8	0.	0.000	0.0	1.000	589.697	1.000	-927.306	0.36	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	4000.		0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	2.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
 Alnpl: 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)

50000.	56.018	3.5	0.	0.000	0.0	0.160	2491.467	0.617	0.000	0.26	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		
19-OFC-CORE	3496.	0.	0.000	0.250	559.	0.00	0.00	86.85	-219.01	-143.49	2.0	
19-OFC-W	4647.	0.	0.000	0.250	743.	0.00	0.00	115.42	-291.06	-190.69	2.0	
19-OFC-S	5924.	0.	0.000	0.250	948.	0.00	0.00	147.15	-371.08	-243.12	2.0	
19-OFC-E	4140.	0.	0.000	0.250	662.	0.00	0.00	102.83	-259.31	-169.90	2.0	
19-OFC-N	3085.	0.	0.000	0.250	494.	0.00	0.00	76.62	-193.22	-126.59	2.0	
19-CORR	645.	0.	0.000	0.250	103.	0.00	0.00	16.03	-40.41	-26.48	2.0	
19-RESTRMS	1263.	0.	0.000	0.250	202.	0.00	0.00	31.37	-79.10	-51.83	2.0	
19-ELEV-LOBBY	1801.	0.	0.000	0.250	288.	0.00	0.00	44.73	-112.80	-73.90	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 Jul 16 15:16:07 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	PVAVS	1.000	36000.0	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)	
36000.	21.341	1.8	0.	0.000	0.0	1.000	2653.636	1.000	-4172.875	0.36	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		
21-DOAS-ZONE	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	9.0	

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR 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	PVAVS	1.000	223754.0	1598.								
SUPPLY FAN	ELEC	DELTA-T	RETURN FAN	ELEC	DELTA-T	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR	

(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)	
225000.	252.081	3.5	0.	0.000	0.0	0.160	11238.347	0.617	0.000	0.26	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 (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER		
21-OFC-CORE	3379.	0.	0.000	0.250	541.	0.00	0.00	83.94	-211.68	-138.69	9.0	
21-OFC-W	4618.	0.	0.000	0.250	739.	0.00	0.00	114.71	-289.28	-189.53	9.0	
21-OFC-E	4080.	0.	0.000	0.250	653.	0.00	0.00	101.34	-255.55	-167.43	9.0	
21-OFC-N	3182.	0.	0.000	0.250	509.	0.00	0.00	79.04	-199.32	-130.59	9.0	
21-CORR	655.	0.	0.000	0.250	105.	0.00	0.00	16.28	-41.05	-26.90	9.0	
21-RESTRMS	1283.	0.	0.000	0.250	205.	0.00	0.00	31.87	-80.36	-52.65	9.0	
21-ELEV-LOBBY	1828.	0.	0.000	0.250	293.	0.00	0.00	45.41	-114.52	-75.03	9.0	
21-OFC-S	5975.	0.	0.000	0.250	956.	0.00	0.00	148.41	-374.25	-245.20	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 Jul 16 15:16:07 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	PVAVS	1.000	4000.0	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)	
4000.	2.371	1.8	0.	0.000	0.0	1.000	294.848	1.000	-463.653	0.36	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 (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER		
30-DOAS-ZONE	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	1.0	
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1												
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			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)
25000.	28.009	3.5	0.	0.000	0.0	0.160	1242.187	0.618	0.000	0.26	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	1362.	0.	0.000	0.250	218.	0.00	0.00	33.83	-85.32	-55.90	1.0
30-OFC-N	3286.	0.	0.000	0.250	526.	0.00	0.00	81.62	-205.82	-134.85	1.0
30-OFC-CORE	3321.	0.	0.000	0.250	531.	0.00	0.00	82.48	-208.00	-136.28	1.0
30-OFC-W	4886.	0.	0.000	0.250	782.	0.00	0.00	121.36	-306.05	-200.52	1.0
30-OFC-E	4333.	0.	0.000	0.250	693.	0.00	0.00	107.64	-271.45	-177.85	1.0
30-CORR	690.	0.	0.000	0.250	110.	0.00	0.00	17.13	-43.21	-28.31	1.0
30-ELEV-LOBBY	1093.	0.	0.000	0.250	175.	0.00	0.00	27.16	-68.49	-44.87	1.0
30-OFC-S	6029.	0.	0.000	0.250	965.	0.00	0.00	149.76	-377.66	-247.43	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 Jul 16 15:16:07 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 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	PVAVS	1.000	8000.0	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)
8000.	4.743	1.8	0.	0.000	0.0	1.000	589.697	1.000	-927.306	0.36	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	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	2.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 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	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)
50000.	56.018	3.5	0.	0.000	0.0	0.160	2466.513	0.619	0.000	0.26	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	
31-RESTRMS	1364.	0.	0.000	0.250	218.	0.00	0.00	33.89	-85.47	-56.00	2.0
31-OFC-N	3300.	0.	0.000	0.250	528.	0.00	0.00	81.96	-206.69	-135.42	2.0
31-OFC-CORE	3277.	0.	0.000	0.250	524.	0.00	0.00	81.41	-205.29	-134.50	2.0
31-OFC-W	4901.	0.	0.000	0.250	784.	0.00	0.00	121.73	-306.97	-201.12	2.0
31-OFC-E	4332.	0.	0.000	0.250	693.	0.00	0.00	107.60	-271.33	-177.77	2.0
31-CORR	690.	0.	0.000	0.250	110.	0.00	0.00	17.14	-43.23	-28.32	2.0
31-ELEV-LOBBY	1095.	0.	0.000	0.250	175.	0.00	0.00	27.21	-68.61	-44.95	2.0
31-OFC-S	6041.	0.	0.000	0.250	967.	0.00	0.00	150.06	-378.41	-247.93	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 Jul 16 15:16:07 2015SDL RUN 1
 Alnpl: 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	PVAVS		1.000	36000.0		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)	
36000.	21.341	1.8	0.	0.000	0.0	1.000	2653.636	1.000	-4172.875	0.36	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	4000.		0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
 Alnpl: 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	216149.9	1531.

1 DOE 2.1E												
Alnp1: 1200 kW:250 TR												
MANHATTAN WEST												
DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1												
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		PVAVS		1.000		4000.0		0.				
1 DOE 2.1E												
Alnp1: 1200 kW:250 TR												
MANHATTAN WEST												
DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1												
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-DOAS-ZONE				1.000		4000.		0.00				

NAME		TYPE		MULTIPLIER		(SQFT)		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)	
25000.		28.009	3.5	0.		0.000	0.0	0.160	1240.329	0.618	0.000	0.26	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		4607.		0.		0.000	0.250	737.	0.00	0.00	114.43	-288.56	-189.06	1.0
42-RESTRMS		1370.		0.		0.000	0.250	219.	0.00	0.00	34.03	-85.82	-56.23	1.0
42-OFC-CORE		3385.		0.		0.000	0.250	542.	0.00	0.00	84.08	-212.02	-138.91	1.0
42-OFC-W		5114.		0.		0.000	0.250	818.	0.00	0.00	127.03	-320.34	-209.88	1.0
42-CORR		720.		0.		0.000	0.250	115.	0.00	0.00	17.88	-45.08	-29.53	1.0
42-ELEV-LOBBY		572.		0.		0.000	0.250	92.	0.00	0.00	14.21	-35.83	-23.48	1.0
42-OFC-N		3305.		0.		0.000	0.250	529.	0.00	0.00	82.10	-207.04	-135.65	1.0
42-OFC-S		5928.		0.		0.000	0.250	948.	0.00	0.00	147.24	-371.31	-243.27	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 Jul 16 15:16:07 2015SDL RUN		1
Alnpl: 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		PVAVS		1.000		36000.0		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)	
36000.		21.341	1.8	0.		0.000	0.0	1.000	2653.636	1.000	-4172.875	0.36	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		4000.		0.		0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	9.0
1 DOE 2.1E				MANHATTAN WEST				DOE-2.1E-121				Thu Jul 16 15:16:07 2015SDL RUN		1
Alnpl: 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)	
225000.		252.081	3.5	0.	0.000	0.0	0.160	11199.982	0.617	0.000	0.26	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			4431.	0.	0.000	0.250	709.	0.00	0.00	110.06	-277.55	-181.84	9.0
43-RESTRMS			1341.	0.	0.000	0.250	215.	0.00	0.00	33.31	-84.00	-55.03	9.0
43-OFC-CORE			3338.	0.	0.000	0.250	534.	0.00	0.00	82.92	-209.10	-137.00	9.0
43-OFC-W			5008.	0.	0.000	0.250	801.	0.00	0.00	124.41	-313.73	-205.55	9.0
43-CORR			704.	0.	0.000	0.250	113.	0.00	0.00	17.49	-44.12	-28.90	9.0
43-ELEV-LOBBY			1116.	0.	0.000	0.250	179.	0.00	0.00	27.71	-69.88	-45.79	9.0
43-OFC-N			3264.	0.	0.000	0.250	522.	0.00	0.00	81.09	-204.48	-133.97	9.0
43-OFC-S			5797.	0.	0.000	0.250	928.	0.00	0.00	144.00	-363.14	-237.92	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 Alnp1: 1200 kW:250 TR REPORT- SV-A SYSTEM DESIGN PARAMETERS				MANHATTAN WEST SIM: VIRIDIAN ENERGY & ENVIRONMENTAL 52-DOAS-SYS				DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1				1	
								WEATHER FILE- NEW YORK CENTRAL NY					
SYSTEM NAME		SYSTEM TYPE		ALTITUDE MULTIPLIER		FLOOR AREA (SQFT)		MAX PEOPLE					
52-DOAS-SYS		PVAVS		1.000		4000.0		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)	
4000.		2.371	1.8	0.	0.000	0.0	1.000	294.848	1.000	-463.653	0.36	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			4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	1.0
1 DOE 2.1E Alnp1: 1200 kW:250 TR REPORT- SV-A SYSTEM DESIGN PARAMETERS				MANHATTAN WEST SIM: VIRIDIAN ENERGY & ENVIRONMENTAL 52-FLR-SYS				DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1				1	
								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)		
25000.		28.009	3.5	0.	0.000	0.0	0.160	1237.208	0.618	0.000	0.26	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		1561.		0.	0.000	0.250	250.	0.00	0.00	38.78	-97.80	-64.07	1.0	
52-OFC-E		4441.		0.	0.000	0.250	711.	0.00	0.00	110.31	-278.17	-182.25	1.0	
52-OFC-CORE		3254.		0.	0.000	0.250	521.	0.00	0.00	80.84	-203.85	-133.56	1.0	
52-OFC-W		5092.		0.	0.000	0.250	815.	0.00	0.00	126.50	-318.99	-208.99	1.0	
52-CORR		716.		0.	0.000	0.250	115.	0.00	0.00	17.78	-44.83	-29.37	1.0	
52-ELEV-LOBBY		1133.		0.	0.000	0.250	181.	0.00	0.00	28.13	-70.95	-46.48	1.0	
52-OFC-N		3183.		0.	0.000	0.250	509.	0.00	0.00	79.06	-199.38	-130.63	1.0	
52-OFC-S		5620.		0.	0.000	0.250	899.	0.00	0.00	139.60	-352.04	-230.65	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				MANHATTAN WEST				DOE-2.1E-121				Thu Jul 16 15:16:07 2015SDL RUN		1
Alnpl: 1200 kW:250 TR				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		PVAVS		1.000		8000.0		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)		
8000.		4.743	1.8	0.	0.000	0.0	1.000	589.697	1.000	-927.306	0.36	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		4000.		0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	2.0	
1 DOE 2.1E				MANHATTAN WEST				DOE-2.1E-121				Thu Jul 16 15:16:07 2015SDL RUN		1
Alnpl: 1200 kW:250 TR				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		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)	
50000.		56.018		3.5		0.		0.000		0.0		0.160		2483.613		0.618		0.000		0.26		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	
53-RESTRMS		1397.		0.		0.000		0.250		223.		0.00		0.00		34.69		-87.49		-57.32		2.0	
53-OFC-E		4365.		0.		0.000		0.250		698.		0.00		0.00		108.42		-273.40		-179.12		2.0	
53-OFC-CORE		3400.		0.		0.000		0.250		544.		0.00		0.00		84.45		-212.95		-139.52		2.0	
53-OFC-W		5088.		0.		0.000		0.250		814.		0.00		0.00		126.37		-318.68		-208.79		2.0	
53-CORR		842.		0.		0.000		0.250		135.		0.00		0.00		20.91		-52.74		-34.55		2.0	
53-ELEV-LOBBY		1131.		0.		0.000		0.250		181.		0.00		0.00		28.10		-70.87		-46.43		2.0	
53-OFC-N		3181.		0.		0.000		0.250		509.		0.00		0.00		79.01		-199.23		-130.53		2.0	
53-OFC-S		5598.		0.		0.000		0.250		896.		0.00		0.00		139.05		-350.64		-229.73		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 Jul 16 15:16:07 2015SDL RUN 1											
Alnp1: 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		PVAVS		1.000		28000.0		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)	
28000.		16.599		1.8		0.		0.000		0.0		1.000		2063.939		1.000		-3245.570		0.36		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		4000.		0.		0.000		1.000		4000.		0.00		0.00		99.36		-237.60		-194.40		7.0	
1 DOE 2.1E				MANHATTAN WEST				DOE-2.1E-121				Thu Jul 16 15:16:07 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)
175000.		196.063	3.5	0.	0.000	0.0	0.160	8721.961	0.617	0.000	0.26	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		1378.	0.	0.000	0.250	220.	0.00	0.00	34.23	-86.31	-56.55	7.0
55-OFC-E		4532.	0.	0.000	0.250	725.	0.00	0.00	112.58	-283.91	-186.01	7.0
55-OFC-CORE		3485.	0.	0.000	0.250	558.	0.00	0.00	86.57	-218.31	-143.03	7.0
55-OFC-W		5046.	0.	0.000	0.250	807.	0.00	0.00	125.35	-316.10	-207.10	7.0
55-CORR		835.	0.	0.000	0.250	134.	0.00	0.00	20.73	-52.29	-34.26	7.0
55-ELEV-LOBBY		1122.	0.	0.000	0.250	180.	0.00	0.00	27.87	-70.29	-46.05	7.0
55-OFC-N		3128.	0.	0.000	0.250	500.	0.00	0.00	77.70	-195.94	-128.37	7.0
55-OFC-S		5474.	0.	0.000	0.250	876.	0.00	0.00	135.96	-342.86	-224.63	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 Jul 16 15:16:07 2015SDL RUN 1
Alnpl: 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	PVAVS		1.000	4000.0		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)	
	4000.	2.371	1.8	0.	0.000	0.0	1.000	294.848	1.000	-463.653	0.36	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			4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1

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

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
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)	
	25000.	28.009	3.5	0.	0.000	0.0	0.160	1241.170	0.618	0.000	0.26	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			1432.	0.	0.000	0.250	229.	0.00	0.00	35.57	-89.70	-58.77	1.0
62-OFC-E			4365.	0.	0.000	0.250	698.	0.00	0.00	108.44	-273.44	-179.15	1.0
62-OFC-CORE			3713.	0.	0.000	0.250	594.	0.00	0.00	92.24	-232.60	-152.40	1.0
62-OFC-W			5246.	0.	0.000	0.250	839.	0.00	0.00	130.32	-328.64	-215.31	1.0
62-CORR			868.	0.	0.000	0.250	139.	0.00	0.00	21.55	-54.34	-35.60	1.0
62-ELEV-LOBBY			574.	0.	0.000	0.250	92.	0.00	0.00	14.27	-35.98	-23.57	1.0
62-OFC-N			3200.	0.	0.000	0.250	512.	0.00	0.00	79.48	-200.42	-131.31	1.0
62-OFC-S			5601.	0.	0.000	0.250	896.	0.00	0.00	139.14	-350.87	-229.88	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 Jul 16 15:16:07 2015SDL RUN 1

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

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
63-DOAS-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
63-DOAS-SYS	PVAVS		1.000	20000.0		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)	
20000.	11.856	1.8	0.	0.000	0.0	1.000	1474.242	1.000	-2318.264	0.36	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		4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	5.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
Alnp1: 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)
125000.	140.045	3.5	0.	0.000	0.0	0.160	6219.527	0.618	0.000	0.26	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)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER
63-RESTRMS	1411.	0.	0.000	0.250	226.	0.00	0.00	35.05	-88.38	-57.91	5.0
63-OFC-E	4145.	0.	0.000	0.250	663.	0.00	0.00	102.97	-259.66	-170.12	5.0
63-OFC-CORE	3779.	0.	0.000	0.250	605.	0.00	0.00	93.86	-236.70	-155.08	5.0
63-OFC-W	5171.	0.	0.000	0.250	827.	0.00	0.00	128.44	-323.89	-212.21	5.0
63-CORR	855.	0.	0.000	0.250	137.	0.00	0.00	21.23	-53.54	-35.08	5.0
63-ELEV-LOBBY	1147.	0.	0.000	0.250	184.	0.00	0.00	28.50	-71.88	-47.09	5.0
63-OFC-N	3115.	0.	0.000	0.250	498.	0.00	0.00	77.38	-195.12	-127.84	5.0
63-OFC-S	5377.	0.	0.000	0.250	860.	0.00	0.00	133.57	-336.83	-220.68	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 Jul 16 15:16:07 2015SDL RUN 1
Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-69-1 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC-69-1	PVAVS	1.000	2331.0	17.							
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)
6000.	6.414	3.3	0.	0.000	0.0	0.056	207.417	0.723	0.000	0.26	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)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER

69-OFC	260.	0.	0.000	0.350	26.	0.00	0.00	5.62	-15.45	-10.67	1.0
69-LOCKERS	1340.	0.	0.000	0.350	141.	0.00	0.00	28.95	-79.61	-55.00	1.0
69-WORKSHOP	4400.	0.	0.000	0.350	166.	0.00	0.00	95.03	-261.34	-180.57	1.0

1 DOE 2.1E	MANHATTAN WEST	DOE-2.1E-121	Thu Jul 16 15:16:07 2015	SDL 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)	
52281.	0.001	1.7	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		4277.	0.	2.410	1.000	86.	149.89	0.69	95.52	-231.67	-234.59	2.0
30-EMR		7109.	0.	4.005	1.000	142.	249.11	0.69	158.77	-385.07	-389.92	1.0
42-EMR		7586.	0.	4.274	1.000	152.	265.95	0.69	169.42	-410.91	-416.09	1.0
52-EMR		7732.	0.	4.356	1.000	155.	271.26	0.69	172.68	-418.82	-424.09	1.0
62-EMR		7021.	0.	3.955	1.000	140.	246.42	0.69	156.81	-380.30	-385.10	1.0
RF-EMR		7549.	0.	4.253	1.000	151.	265.77	0.68	168.60	-408.90	-414.06	1.0
RF2-EMR		6730.	0.	3.792	1.000	135.	235.85	0.69	150.31	-364.54	-369.14	1.0

1 DOE 2.1E	MANHATTAN WEST	DOE-2.1E-121	Thu Jul 16 15:16:07 2015	SDL RUN	1
Alnpl: 1200 kW:250 TR	SIM: VIRIDIAN ENERGY & ENVIRONMENTAL				
REPORT- SV-A	SYSTEM DESIGN PARAMETERS	AC-68-1	WEATHER FILE-	NEW YORK CENTRAL	NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
AC-68-1	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)	
1800.	0.655	1.1	0.	0.000	0.0	0.020	44.006	0.900	0.000	0.24	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		1800.	0.	0.000	0.020	36.	0.00	0.00	33.05	-106.92	-97.20	1.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1 Alnp1: 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	52490.9		10.						
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)	
96340.	22.615	0.7	0.	0.000	0.0	0.020	2415.728	0.791	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)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER		
6-IT	12924.	0.	0.000	1.000	258.	0.00	0.00	237.28	-767.67	-697.88	1.0	
7-IT	424.	0.	0.000	1.000	8.	0.00	0.00	7.78	-25.17	-22.88	12.0	
19-IT	424.	0.	0.000	1.000	8.	0.00	0.00	7.78	-25.17	-22.88	2.0	
21-IT	424.	0.	0.000	1.000	8.	0.00	0.00	7.78	-25.17	-22.89	9.0	
30-IT	689.	0.	0.000	1.000	14.	0.00	0.00	12.65	-40.93	-37.20	1.0	
31-IT	689.	0.	0.000	1.000	14.	0.00	0.00	12.65	-40.93	-37.20	2.0	
42-IT	518.	0.	0.000	1.000	10.	0.00	0.00	9.51	-30.77	-27.98	1.0	
43-IT	518.	0.	0.000	1.000	10.	0.00	0.00	9.51	-30.77	-27.98	9.0	
52-IT	518.	0.	0.000	1.000	10.	0.00	0.00	9.51	-30.77	-27.98	1.0	
53-IT	772.	0.	0.000	1.000	15.	0.00	0.00	14.17	-45.85	-41.68	2.0	
55-IT	772.	0.	0.000	1.000	15.	0.00	0.00	14.18	-45.87	-41.70	7.0	
62-IT	772.	0.	0.000	1.000	15.	0.00	0.00	14.18	-45.87	-41.70	1.0	
63-IT	495.	0.	0.000	1.000	10.	0.00	0.00	9.08	-29.38	-26.71	5.0	
69-BMS	264.	0.	0.000	1.000	5.	0.00	0.00	4.84	-15.65	-14.23	1.0	
5-ELEC-GEN	32451.	0.	0.000	1.000	649.	0.00	0.00	595.80	-1927.58	-1752.34	1.0	
6-ELEC	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	1.0	
7-ELEC	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	12.0	
19-ELEC	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	2.0	

21-ELEC	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	9.0
30-ELEC	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	1.0
31-ELEC	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	2.0
33-ELEC	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 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

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

42-ELEC	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	1.0
43-ELEC	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	9.0
52-ELEC	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	1.0
53-ELEC	377.	0.	0.000	1.000	8.	0.00	0.00	6.92	-22.39	-20.36	2.0
55-ELEC	323.	0.	0.000	1.000	6.	0.00	0.00	5.93	-19.19	-17.45	7.0
62-ELEC	323.	0.	0.000	1.000	6.	0.00	0.00	5.93	-19.19	-17.45	1.0
63-ELEC	323.	0.	0.000	1.000	6.	0.00	0.00	5.93	-19.19	-17.45	5.0
68-ELEC	323.	0.	0.000	1.000	6.	0.00	0.00	5.93	-19.19	-17.45	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1

Alnpl: 1200 kW:250 TR

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- SV-A SYSTEM DESIGN PARAMETERS

HV-68-345

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
HV-68-345	PVAVS	1.000	17859.6	4.								
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)	
50000.	46.479	2.9	0.	0.000	0.0	0.034	1363.143	0.779	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
68-MECH		50000.	0.	0.000	1.000	1690.	0.00	0.00	918.00	-2970.00	-2700.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1

Alnpl: 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	41323.1	8.

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)	
105198.	24.694	0.7	0.	0.000	0.0	0.996	7552.891	1.000	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		418.	0.	0.000	1.000	8.	0.00	0.00	7.67	-24.81	-22.55	1.0
6-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
7-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	12.0
19-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	2.0
21-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	9.0
30-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
31-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	2.0
33-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	9.0
42-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
43-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	9.0
52-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
53-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	2.0
55-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	7.0
62-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
63-MECH		1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	5.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 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		35857.1		20.				
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)	
29836.	7.004	0.7	0.	0.000	0.0	0.187	1207.801	0.649	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
B-STORAGE	1906.	0.	0.000	1.000	38.	0.00	0.00	34.99	-113.21	-102.92	1.0
B-STORAGE-2	1861.	0.	0.000	1.000	37.	0.00	0.00	34.16	-110.53	-100.48	1.0
B-PACKAGE	422.	0.	0.000	1.000	8.	0.00	0.00	7.75	-25.08	-22.80	1.0
B-BIKE-STOR	1604.	0.	0.000	1.000	32.	0.00	0.00	29.45	-95.28	-86.62	1.0
B1-VEST	1653.	0.	0.000	1.000	33.	0.00	0.00	30.36	-98.21	-89.28	1.0
B1-STORAGE	1345.	0.	0.000	1.000	27.	0.00	0.00	24.70	-79.92	-72.65	1.0
4-STORAGE	353.	0.	0.000	1.000	7.	0.00	0.00	6.49	-20.99	-19.08	1.0
21-STORAGE	407.	0.	0.000	1.000	8.	0.00	0.00	7.47	-24.17	-21.97	9.0
30-STORAGE	1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
31-STORAGE	1690.	0.	0.000	1.000	1690.	0.00	0.00	31.03	-100.39	-91.26	2.0
33-STORAGE	164.	0.	0.000	1.000	3.	0.00	0.00	3.02	-9.76	-8.87	9.0
42-STORAGE	164.	0.	0.000	1.000	3.	0.00	0.00	3.02	-9.76	-8.87	1.0
43-STORAGE	637.	0.	0.000	1.000	13.	0.00	0.00	11.69	-37.83	-34.39	9.0
52-STORAGE	307.	0.	0.000	1.000	6.	0.00	0.00	5.64	-18.24	-16.58	1.0
53-STORAGE	260.	0.	0.000	1.000	5.	0.00	0.00	4.77	-15.42	-14.02	2.0
68-STORAGE	1139.	0.	0.000	1.000	23.	0.00	0.00	20.91	-67.65	-61.50	1.0
RF-STORAGE	621.	0.	0.000	1.000	12.	0.00	0.00	11.41	-36.91	-33.56	1.0
69-STORAGE	1997.	0.	0.000	1.000	40.	0.00	0.00	36.66	-118.62	-107.83	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 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	48378.2	346.							
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)
24374.	5.722	0.7	0.	0.000	0.0	0.020	839.203	0.678	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-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
68-STAIR	357.	0.	0.000	1.000	7.	0.00	0.00	6.55	-21.18	-19.26	1.0

1 DOE 2.1E			MANHATTAN WEST			DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1		
Alnp1: 1200 kW:250 TR			SIM: VIRIDIAN ENERGY & ENVIRONMENTAL					
REPORT- SV-A SYSTEM DESIGN PARAMETERS			PARKING-SYS			WEATHER FILE- NEW YORK CENTRAL NY		

SYSTEM	SYSTEM	ALTITUDE	FLOOR AREA	MAX				
NAME	TYPE	MULTIPLIER	(SQFT)	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)	
70000.	29.783	1.3	47000.	28.261	1.9	1.000	5101.377	1.000	-9020.177	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		70000.	0.	0.000	1.000	70000.	0.00	0.00	2646.00	-4158.00	-5292.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015SDL RUN 1
 Alnpl: 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)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	SENSIBLE (SHR)	HEATING CAPACITY (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)	
45000.	16.658	1.1	42000.	15.867	1.2	1.000	3266.870	1.000	-5808.158	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		45000.	0.	0.000	1.000	45000.	0.00	0.00	1701.00	-2673.00	-2430.00	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jan 29 18:20:22 2015SDL RUN 1
 (note: unchanged from January 2015)
 Alnpl: 1200 kW:250 TR 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	0.172	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 2015SDL RUN 1

(note: unchanged from January 2015)

Alnpl: 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 U-VALUE/WINDOWS (BTU/HR-SQFT-F)	AVERAGE U-VALUE/WALLS (BTU/HR-SQFT-F)	AVERAGE U-VALUE WALLS+WINDOWS (BTU/HR-SQFT-F)	WINDOW AREA (SQFT)	WALL AREA (SQFT)	WINDOW+WALL 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 Thu Jul 16 15:16:07 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

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015PDL RUN 1
Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

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	1228	752	292	100	38	20	4	3	3	0	0		2440	21175.3	0.0	0.	21175.3
	1228	752	292	100	38	20	4	3	3	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	34	12	17	5	0	0	0	0	0	0	0	68	40.1	10.6	1799.	0.0
	34	12	17	5	0	0	0	0	0	0	0					
ABSOR1-CHLR	1421	686	516	638	182	61	6	0	0	0	0	3510	2554.5	0.0	9657.	3581.5
	1421	686	516	638	182	61	6	0	0	0	0					
COOLING-TWR	6436	1021	424	306	202	245	103	22	1	0	0	8760	8652.9	0.0	383590.	0.0
	6525	951	415	297	201	245	103	22	1	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 = 234024. KWH
 COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 59635. KWH
 CONDENSER WATER PUMP ELECTRICAL USE = 301574. KWH
 TOWER OR CONDENSER FAN ELECTRICAL USE = 82026. 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 Jul 16 15:16:07 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	21175.3	53.2
ELEC-DHW-HEATER	2286.7	5.7
GTURB-GEN	16363.0	41.1
	=====	=====
LOAD SATISFIED	39825.0	100.0
TOTAL LOAD ON PLANT	39825.0	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
OPEN-REC-CHLR	40.1	1.0
ABSOR1-CHLR	2554.5	63.1
COOLING-TWR	1452.4	35.9
	=====	=====
LOAD SATISFIED	4047.0	100.0
TOTAL LOAD ON PLANT	4047.0	

ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
GTURB-GEN	8733889.0	30.2
ELECTRICITY	20202652.0	69.8
	=====	=====
LOAD SATISFIED	28936540.0	100.0
TOTAL LOAD ON PLANT	28936458.0	

1 DOE 2.1E TOWER ABOVE DESIGN TEMPERATURE OF 88.F 0 HOURS
 Alnpl: 1200 kW:250 TR MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015PDL RUN 1
 REPORT- PS-D PLANT LOADS SATISFIED SIM: VIRIDIAN ENERGY & ENVIRONMENTAL 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	39825.0	39825.0	0.000	0.000	0
COOLING LOADS	4047.0	4047.0	0.000	0.000	0
ELECTRICAL LOADS	98759.3	98759.5	0.000	0.000	0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015PDL RUN 1
 Alnpl: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- PS-E MONTHLY ENERGY END-USE SUMMARY WEATHER FILE- NEW YORK CENTRAL NY

0ELECTRICAL END-USES IN KWH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 AREA LIGHTS	705362.	649640.	746046.	718408.	705100.	718352.	718914.	732098.	704607.	705221.	690988.	718575.	8513309.
MAX KW	1534.2	1534.2	1530.9	1529.4	1529.4	1529.4	1529.4	1529.4	1529.4	1530.1	1534.2	1534.2	1534.2
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	599381.	546924.	619462.	597903.	599381.	597903.	607241.	611602.	590043.	599381.	582183.	603742.	7155146.
MAX KW	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
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	21036.	36277.	97940.	139284.	328451.	593030.	759406.	675581.	462036.	192840.	95233.	31166.	3432282.
MAX KW	573.4	683.0	1279.9	1834.7	2004.5	2130.7	2765.1	3373.9	2137.1	1463.8	892.3	634.2	3373.9
DAY/HR	19/14	18/14	16/16	28/16	28/18	2/16	26/10	17/16	3/16	1/16	2/14	16/15	
0 HEAT REJECT	56.	573.	6284.	12120.	41542.	68539.	85916.	80638.	61312.	21570.	4961.	76.	383587.
MAX KW	3.7	89.4	92.3	139.3	139.3	139.3	139.3	139.3	139.3	104.0	92.2	6.4	139.3
DAY/HR	27/ 5	2/12	13/18	28/11	12/12	2/12	1/10	2/10	2/13	18/14	5/15	21/14	
0PUMPS & MISC	112767.	114780.	148081.	147037.	178203.	174238.	206319.	191313.	160936.	163645.	133254.	119974.	1850544.
MAX KW	426.1	413.0	417.8	481.4	533.2	538.6	1119.4	842.2	514.3	416.5	417.1	410.3	1119.4
DAY/HR	22/22	2/14	16/ 9	28/14	10/16	28/16	18/19	17/15	3/16	16/11	18/ 9	17/13	
0 VENT FANS	504304.	458649.	515915.	482536.	457109.	500378.	513737.	511314.	466459.	455363.	453988.	502600.	5822352.

	MAX KW	1292.5	1244.9	1218.5	1305.1	1404.4	1447.9	1529.5	1551.5	1420.7	1250.2	1218.1	1246.2	1551.5
	DAY/HR	23/ 8	13/12	1/12	28/18	10/16	28/10	26/10	17/17	7/17	1/17	27/12	11/12	
0	ODOMHOT 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	2098879.	1950649.	2295314.	2252273.	2462082.	2798003.	3036084.	2946030.	2583590.	2281162.	2103556.	2128948.	28936570.

0FUEL END-USES IN MBTU

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL

0	SPACE HEAT	7451.9	4439.1	2189.9	465.1	62.3	0.0	0.0	0.0	0.0	338.9	1308.6	4919.6	21175.3
	MAX MBTU	62.025	41.563	33.837	21.487	5.985	0.000	0.000	0.000	0.000	10.703	32.423	41.121	62.025
	DAY/HR	23/ 8	6/ 5	1/ 5	5/ 5	5/ 6	0/ 0	0/ 0	0/ 0	0/ 0	26/ 5	26/ 5	27/ 5	
=====														
0	TOTAL MBTU	7451.9	4439.1	2189.9	465.1	62.3	0.0	0.0	0.0	0.0	338.9	1308.6	4919.6	21175.3

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015PDL RUN 2
 Alnp1: 1200 kW:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

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	1711	858	633	369	186	82	30	7	3	0	1	3880	375.5	0.0	0.	375.5	
	1711	858	633	369	186	82	30	7	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 = 1272. 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

REPORT- PS-D

PLANT LOADS SATISFIED

WEATHER FILE- NEW YORK CENTRAL NY

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	375.5	59.6
DHW-HEATER	254.0	40.4
	=====	=====
LOAD SATISFIED	629.5	100.0
TOTAL LOAD ON PLANT	629.5	

ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	314036.8	100.0
	=====	=====
LOAD SATISFIED	314036.8	100.0
TOTAL LOAD ON PLANT	314037.0	

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	629.5	629.5	0.000	0.000	0
ELECTRICAL LOADS	1071.8	1071.8	0.000	0.000	0

REPORT- PS-E

MONTHLY ENERGY END-USE SUMMARY

WEATHER FILE- NEW YORK CENTRAL NY

0ELECTRICAL END-USES IN KWH

[illegible]

	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	5513.	5500.	7363.	8011.	14918.	16508.	20380.	19072.	15932.	11850.	6338.	5224.	136609.
	MAX KW	27.0	30.2	41.8	53.1	77.6	54.0	79.3	85.0	61.5	50.8	37.3	27.8	85.0
	DAY/HR	1/ 6	23/13	13/16	28/14	30/14	27/14	24/15	17/15	4/14	17/14	6/13	24/14	
0	PUMPS & MISC	267.	215.	191.	135.	67.	0.	0.	0.	0.	136.	185.	241.	1437.
	MAX KW	1.1	0.8	0.8	0.4	0.4	0.0	0.0	0.0	0.1	0.4	0.6	0.7	1.1
	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	2567.	2342.	2603.	2348.	2710.	2662.	3146.	3180.	2980.	2910.	2571.	2494.	32512.
	MAX KW	9.0	11.3	10.4	10.3	13.3	10.8	13.5	15.6	14.3	15.0	13.3	9.6	15.6
	DAY/HR	19/14	18/14	15/13	28/14	30/14	22/14	25/16	17/15	4/14	17/14	2/14	24/14	
0	DOMHOT 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	20533.	19063.	22343.	22286.	29881.	30963.	35712.	34438.	30705.	27082.	20888.	20145.	314037.

0FUEL END-USES IN MBTU

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
0	SPACE HEAT	106.2	67.3	40.6	19.3	7.8	0.0	0.0	0.0	16.2	35.1	83.0	375.5
	MAX MBTU	0.591	0.438	0.441	0.210	0.145	0.000	0.000	0.000	0.195	0.306	0.409	0.591
	DAY/HR	23/ 6	7/ 6	7/ 6	18/ 6	4/ 6	0/ 0	0/ 0	0/ 0	26/ 6	27/ 9	11/ 6	
0	DOMHOT WATER	23.8	22.4	24.8	23.6	22.6	20.2	19.3	18.4	17.7	19.1	19.9	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	0.033
	DAY/HR	1/ 1	1/ 1	1/ 1	1/ 1	1/ 2	1/ 2	1/ 2	1/ 2	1/ 2	1/ 1	1/ 1	
		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
0	TOTAL MBTU	130.0	89.6	65.5	42.9	30.4	20.2	19.3	18.4	17.7	35.3	55.0	629.5

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015PDL RUN 1

Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEW YORK CENTRAL NY

E Q U I P M E N T	NUMBER		NUMBER		NUMBER		NUMBER		NUMBER		NUMBER	
	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD	SIZE	INSTD
	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL	(MBTU/H)	AVAIL
HW-BOILER	70.573	1 1										
ELEC-DHW-HEATER	2.750	1 1										
OPEN-REC-CHLR	3.600	1 1										
ABSOR1-CHLR	3.000	1 1										
COOLING-TWR	2.440	5 5										
GTURB-GEN	0.563	6 6										

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:16:07 2015PDL RUN 2

Alnp1: 1200 kw:250 TR SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

CODE BASELINE

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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	35553.7	0.0	0.0
MISC EQUIPMT	24420.4	0.0	0.0
SPACE HEAT	0.0	0.1	23878.1
SPACE COOL	6504.7	12714.4	0.0
HEAT REJECT	10143.5	0.0	0.0
PUMPS & MISC	4953.0	0.0	0.0
VENT FANS	12770.3	0.0	0.0
DOMHOT WATER	2778.4	0.0	0.0
EXT LIGHTS	120.4	0.0	0.0
EXT MISC	2943.1	0.0	0.0
	-----	-----	-----
TOTAL	100187.5	12714.5	23878.1

TOTAL SITE ENERGY 136780.05 MBTU 64.1 KBTU/SQFT-YR GROSS-AREA 64.1 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY 337185.06 MBTU 158.0 KBTU/SQFT-YR GROSS-AREA 158.0 KBTU/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 1.8
PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

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

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 1
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	10417230.	0.	0.
MISC EQUIPMT	7155184.	0.	0.
SPACE HEAT	0.	1.	26240.
SPACE COOL	1905873.	127144.	0.
HEAT REJECT	2972050.	0.	0.
PUMPS & MISC	1451230.	0.	0.
VENT FANS	3741686.	0.	0.
DOMHOT WATER	814075.	0.	0.
EXT LIGHTS	35280.	0.	0.
EXT MISC	862320.	0.	0.
	-----	-----	-----
TOTAL	29354928.	127145.	26240.

TOTAL ELECTRICITY	29354928. KWH	13.752 KWH	/SQFT-YR GROSS-AREA	13.752 KWH	/SQFT-YR NET-AREA
TOTAL NATURAL-GAS	127145. THERM	0.060 THERM	/SQFT-YR GROSS-AREA	0.060 THERM	/SQFT-YR NET-AREA
TOTAL FUEL-OIL	26240. MMBTU	0.012 MMBTU	/SQFT-YR GROSS-AREA	0.012 MMBTU	/SQFT-YR NET-AREA

PERCENT OF HOURS ANY SYSTEM ZONE OUTSIDE OF THROTTLING RANGE = 1.8
 PERCENT OF HOURS ANY PLANT LOAD NOT SATISFIED = 0.0

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

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015EDL RUN 1
 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	29354832. KWH	6135713.	0.2090	YES
OSC2-II-GAS-TARIF	NATURAL-GAS	4	127145. THERM	125482.	0.9869	YES
ODES-STM-RATE	FUEL-OIL	1 2	26240. MMBTU	584056.	22.2585	YES
0				=====		
0				6845250.		

ENERGY COST/GROSS BLDG AREA: 3.21
ENERGY COST/NET BLDG AREA: 3.21

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 2
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	377.3	0.0
MISC EQUIPMT	112.3	0.0
SPACE HEAT	0.0	221.8
SPACE COOL	188.0	0.0
PUMPS & MISC	3.0	0.0
VENT FANS	53.1	0.0
DOMHOT WATER	0.0	242.9
	-----	-----
TOTAL	733.8	464.8

TOTAL SITE ENERGY	1198.59 MBTU	0.6 KBTU/SQFT-YR GROSS-AREA	0.6 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	2666.44 MBTU	1.2 KBTU/SQFT-YR GROSS-AREA	1.2 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 MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 2
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:	ELECTRICITY	FUEL-OIL
SITE UNITS:	KWH	MMBTU
CATEGORY OF USE		

AREA LIGHTS	110563.	0.
MISC EQUIPMT	32911.	0.
SPACE HEAT	0.	244.
SPACE COOL	55087.	0.
PUMPS & MISC	880.	0.
VENT FANS	15567.	0.
DOMHOT WATER	0.	267.
	-----	-----
TOTAL	215008.	511.

TOTAL ELECTRICITY	215008. KWH	0.101 KWH	/SQFT-YR GROSS-AREA	0.101 KWH	/SQFT-YR NET-AREA
TOTAL FUEL-OIL	511. 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.

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015EDL RUN 2
 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	215013. KWH	50307.	0.2340	YES
OSC2-II-GAS-TARIF	NATURAL-GAS	4	0. THERM	347.	0.0000	YES
0DES-STM-RATE	FUEL-OIL	1 2	511. MMBTU	10578.	20.7116	YES
0				=====		
0				61232.		

ENERGY COST/GROSS BLDG AREA:	0.03
ENERGY COST/NET BLDG AREA:	0.03

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-B-12 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
AC-B-12	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	2.2	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.	5.853	1.000	164.	275.54	0.70	148.78	-438.01	-448.00	1.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1												
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL												
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-B-3 WEATHER FILE- NEW YORK CENTRAL NY												
SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
AC-B-3	FPFC	1.000	12234.3	2.								
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)	
11205.	0.001	2.7	0.	0.000	0.0	0.402	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.	3.229	1.000	437.	138.22	0.67	66.50	-218.47	-202.92	1.0
B-MER-1		4403.	0.	3.876	1.000	2374.	189.74	0.68	78.87	-392.35	-254.99	1.0
B-MER-2		3134.	0.	2.759	1.000	1690.	135.08	0.68	56.15	-279.31	-181.53	1.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1												
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL												
REPORT- SV-A SYSTEM DESIGN PARAMETERS HV-5-1-SYS WEATHER FILE- NEW YORK CENTRAL NY												
SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
HV-5-1-SYS	PVAVS	1.000	11000.0	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)	
11000.	8.442	2.4	0.	0.000	0.0	1.000	796.740	1.000	-1251.494	0.36	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

HV-5-1-ZONE 11000. 0. 0.000 1.000 11000. 0.00 0.00 273.24 -653.40 -534.60 1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS HV-5-257-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
HV-5-257-SYS	PVAVS	1.000	14400.0	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)	
14400.	11.051	2.4	0.	0.000	0.0	1.000	1043.005	1.000	-1638.319	0.36	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)		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
HV-5-257-ZONE		14400.	0.	0.000	1.000	14400.	0.00	0.00	357.70	-855.36	-699.84	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS HV-5-3-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
HV-5-3-SYS	PVAVS	1.000	2400.0	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)	
2400.	1.954	2.5	0.	0.000	0.0	1.000	174.398	1.000	-272.625	0.36	0.37	
ZONE NAME		SUPPLY FLOW (CFM)	EXHAUST FLOW (CFM)		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
HV-5-3-ZONE		2400.	0.	0.000	1.000	2400.	0.00	0.00	59.62	-142.56	-116.64	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-B-4567 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
AC-B-4567	VAVS	1.000	5408.0	39.								
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)	

5138.	3.906	2.4	0.	0.000	0.0	0.467	220.917	0.671	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	
B-OFFICE	3999.	0.	0.000	0.421	601.	0.00	0.00	86.37	-237.52	-164.11	1.0
B-LOCKERS	1139.	0.	0.000	0.421	171.	0.00	0.00	24.60	-67.65	-46.74	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS HV-5-4-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
HV-5-4-SYS	PVAVS	1.000	2400.0	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)
2400.	1.954	2.5	0.	0.000	0.0	1.000	174.398	1.000	-272.625	0.36	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	
HV-5-4-ZONE	2400.	0.	0.000	1.000	2400.	0.00	0.00	59.62	-142.56	-116.64	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-B1-1 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
AC-B1-1	VAVS	1.000	3157.1	23.

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)
2999.	2.280	2.4	0.	0.000	0.0	0.800	126.691	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)	EXTRACTION RATE (KBTU/HR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
B1-BOH	2140.	0.	0.000	0.421	322.	0.00	0.00	46.22	-127.12	-87.83	1.0
B1-CORR	859.	0.	0.000	0.421	0.	0.00	0.00	18.56	-51.04	-35.26	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

WEATHER FILE- NEW YORK CENTRAL NY

1	DOE 2.1E	MANHATTAN WEST	DOE-2.1E-121	Thu Jul 16 15:37:27 2015	SDL RUN	1
	ANYEC: NYSECCC code compliance for EN1	SIM: VIRIDIAN ENERGY & ENVIRONMENTAL				
	REPORT- SV-A SYSTEM DESIGN PARAMETERS	AC-1-2		WEATHER FILE- NEW YORK CENTRAL	NY	

WEATHER FILE- NEW YORK CENTRAL NY

1	DOE 2.1E	MANHATTAN WEST	DOE-2.1E-121	Thu Jul 16 15:37:27 2015	SDL RUN	1
	ANYEC: NYSECCC code compliance for EN1	SIM: VIRIDIAN ENERGY & ENVIRONMENTAL				
	REPORT- SV-A SYSTEM DESIGN PARAMETERS	AC-2-1		WEATHER FILE- NEW YORK CENTRAL	NY	

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE					
AC-2-1	VAVS		1.000	905.7		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)

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
634.	0.438	2.1	0.	0.000	0.0	1.000	26.361	0.685	0.000	0.00	0.37
2-MECH	634.	0.	0.000	0.571	13.	0.00	0.00	11.64	-37.66	-34.23	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-2-2AB WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
AC-2-2AB	VAVS	1.000	1325.3	9.

SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	EXTRACTION SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
2185.	0.829	1.2	0.	0.000	0.0	1.000	89.991	0.704	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
2-CORR	2185.	0.	0.000	0.243	80.	0.00	0.00	47.20	-129.80	-89.68	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-3-1 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
AC-3-1	VAVS	1.000	2605.4	19.

SUPPLY FAN (CFM)	ELEC (KW)	DELTA-T (F)	RETURN FAN (CFM)	ELEC (KW)	DELTA-T (F)	OUTSIDE AIR RATIO	COOLING CAPACITY (KBTU/HR)	EXTRACTION SENSIBLE (SHR)	EXTRACTION RATE (KBTU/HR)	COOLING EIR (BTU/BTU)	HEATING EIR (BTU/BTU)
2475.	0.939	1.2	0.	0.000	0.0	0.970	93.234	0.700	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
3-CORR	2475.	0.	0.000	0.421	156.	0.00	0.00	53.46	-147.02	-101.58	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-4-134 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
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AC-4-134	VAVS	1.000	19010.5	4.								
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)	
13307.	6.070	1.4	0.	0.000	0.0	0.180	527.684	0.699	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-MECH		13307.	0.	0.000	0.571	266.	0.00	0.00	244.32	-790.46	-718.60	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-4-2 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
AC-4-2	VAVS	1.000	4451.4	32.								
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.	3.421	2.4	0.	0.000	0.0	0.533	193.412	0.736	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-CORR		4500.	0.	0.000	0.421	4500.	0.00	0.00	97.20	-267.30	-184.68	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-4-5 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
AC-4-5	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 Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC4-6-7AB WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC4-6-7AB	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.	20.077	2.0	75000.	24.184	1.0	0.103	1286.071	0.678	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 (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
G-LOBBY-E	11941.	0.	0.000	0.204	845.	0.00	0.00	257.93	-709.31	-490.07	1.0
G-LOBBY-S	7565.	0.	0.000	0.204	962.	0.00	0.00	163.39	-449.33	-310.45	1.0
G-ELEV-LOBBY	4493.	0.	0.000	0.204	157.	0.00	0.00	97.05	-266.89	-184.40	1.0
G-LOBBY-N	6957.	0.	0.000	0.204	1226.	0.00	0.00	150.27	-413.24	-285.51	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-5-1234 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC-5-1234	VAVS	1.000	4403.4	31.							
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)
4183.	1.586	1.2	0.	0.000	0.0	0.574	136.480	0.744	-171.833	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 (SHR)	HEATING CAPACITY (KBTU/HR)	ADDITION RATE (KBTU/HR)	MULTIPLIER	
5-CORR	4183.	0.	0.000	0.390	84.	0.00	0.00	90.36	-248.49	-171.68	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS HV-5-6-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
HV-5-6-SYS	PVAVS	1.000	4000.0	0.

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
BOH-SYS	VAVS		1.000	19216.8		121.						
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)	
20221.	15.372	2.4	20221.	5.696	0.9	0.021	791.108	0.682	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-CORR-1		2996.	0.	0.000	0.421	0.	0.00	0.00	64.71	-177.97	-122.96	1.0
B-CORR-2		6169.	0.	0.000	0.421	0.	0.00	0.00	133.24	-366.42	-253.16	1.0
G-CORR-2		702.	0.	0.000	0.421	44.	0.00	0.00	15.16	-41.69	-28.80	1.0
G-CORR		934.	0.	0.000	0.421	40.	0.00	0.00	20.18	-55.50	-38.35	1.0
5-PUMP		2096.	0.	0.000	0.421	0.	0.00	0.00	38.49	-124.52	-113.20	1.0
68-CORR		3919.	0.	0.000	0.421	157.	0.00	0.00	84.65	-232.80	-160.84	1.0
69-CORR		2269.	0.	0.000	0.421	143.	0.00	0.00	49.01	-134.78	-93.12	1.0
RF-CORR		1135.	0.	0.000	0.421	49.	0.00	0.00	24.52	-67.43	-46.59	1.0
SHAFT		0.	0.	0.000	0.000	0.	0.00	0.00	0.00	0.00	0.00	1.0
3-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 Jul 16 15:37:27 2015SDL RUN 1

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE						
RETAIL-SYS	PVAVS		1.000	10483.6		210.						
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)	
13936.	14.067	3.1	0.	0.000	0.0	0.241	668.961	0.627	0.000	0.36	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

2-RETAIL-N	1625.	0.	0.000	0.301	415.	0.00	0.00	35.10	-96.52	-66.69	1.0
2-RETAIL-W	5412.	0.	0.000	0.301	1732.	0.00	0.00	116.90	-321.49	-222.12	1.0
2-RETAIL-S	6899.	0.	0.000	0.301	1208.	0.00	0.00	149.01	-409.78	-283.12	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS 6-DOAS-SYS WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
6-DOAS-SYS	PVAVS	1.000	4000.0	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)
4000.	2.371	1.8	0.	0.000	0.0	1.000	286.202	1.000	-457.742	0.36	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		4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40 1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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.	21.440	3.5	0.	0.000	0.0	0.211	883.607	0.655	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	956.	0.00	0.00	97.83	-269.02	-185.87 1.0
6-OFC-W		2190.	0.	0.000	0.421	462.	0.00	0.00	47.31	-130.09	-89.88 1.0
6-OFC-S		4124.	0.	0.000	0.421	870.	0.00	0.00	89.07	-244.94	-169.23 1.0
6-OFC-E		2727.	0.	0.000	0.421	575.	0.00	0.00	58.91	-161.99	-111.92 1.0
6-OFC-N		2855.	0.	0.000	0.421	602.	0.00	0.00	61.68	-169.61	-117.19 1.0
6-CORR		533.	0.	0.000	0.421	112.	0.00	0.00	11.51	-31.65	-21.87 1.0

6-RESTRMS	920.	0.	0.000	0.421	194.	0.00	0.00	19.86	-54.63	-37.74	1.0
6-ELEV-LOBBY	1114.	0.	0.000	0.421	235.	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 Jul 16 15:37:27 2015SDL RUN 1

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

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 7-DOAS-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE								
7-DOAS-SYS	PVAVS	1.000	48000.0	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)	
48000.	28.455	1.8	0.	0.000	0.0	1.000	3434.420	1.000	-5492.903	0.36	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		4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	12.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1

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

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 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.	303.270	3.5	0.	0.000	0.0	0.179	12410.037	0.653	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	1392.	0.00	0.00	168.03	-462.07	-319.25	12.0
7-OFC-W		2190.	0.	0.000	0.447	392.	0.00	0.00	47.31	-130.09	-89.88	12.0
7-OFC-S		4202.	0.	0.000	0.447	752.	0.00	0.00	90.76	-249.60	-172.45	12.0
7-OFC-E		2794.	0.	0.000	0.447	500.	0.00	0.00	60.35	-165.96	-114.67	12.0
7-OFC-N		2855.	0.	0.000	0.447	511.	0.00	0.00	61.68	-169.61	-117.19	12.0

7-CORR	533.	0.	0.000	0.447	95.	0.00	0.00	11.51	-31.65	-21.87	12.0
7-RESTRMS	920.	0.	0.000	0.447	165.	0.00	0.00	19.86	-54.63	-37.74	12.0
7-ELEV-LOBBY	1114.	0.	0.000	0.447	199.	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 Jul 16 15:37:27 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 NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
19-DOAS-SYS	PVAVS	1.000	8000.0	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)
8000.	4.743	1.8	0.	0.000	0.0	1.000	572.403	1.000	-915.484	0.36	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	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	2.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 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	VAVS	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)
46713.	52.734	3.5	0.	0.000	0.0	0.171	2152.103	0.653	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-OFC-CORE	7779.	0.	0.000	0.428	1330.	0.00	0.00	168.03	-462.07	-319.25	2.0
19-OFC-W	3118.	0.	0.000	0.428	533.	0.00	0.00	67.35	-185.22	-127.97	2.0
19-OFC-S	4192.	0.	0.000	0.428	717.	0.00	0.00	90.55	-249.03	-172.05	2.0
19-OFC-E	2845.	0.	0.000	0.428	486.	0.00	0.00	61.45	-168.99	-116.76	2.0
19-OFC-N	2855.	0.	0.000	0.428	488.	0.00	0.00	61.68	-169.61	-117.19	2.0

19-CORR	532.	0.	0.000	0.428	91.	0.00	0.00	11.50	-31.63	-21.85	2.0
19-RESTRMS	920.	0.	0.000	0.428	157.	0.00	0.00	19.86	-54.63	-37.74	2.0
19-ELEV-LOBBY	1115.	0.	0.000	0.428	191.	0.00	0.00	24.08	-66.21	-45.75	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 Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 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	PVAVS	1.000	36000.0	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)
36000.	21.341	1.8	0.	0.000	0.0	1.000	2575.815	1.000	-4119.677	0.36	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
21-DOAS-ZONE	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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.	231.768	3.5	0.	0.000	0.0	0.175	9481.868	0.653	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
21-OFC-CORE	7779.	0.	0.000	0.436	1361.	0.00	0.00	168.03	-462.08	-319.25	9.0
21-OFC-W	3080.	0.	0.000	0.436	539.	0.00	0.00	66.53	-182.96	-126.41	9.0
21-OFC-E	2761.	0.	0.000	0.436	483.	0.00	0.00	59.65	-164.03	-113.33	9.0
21-OFC-N	2566.	0.	0.000	0.436	449.	0.00	0.00	55.42	-152.40	-105.29	9.0

21-CORR	533.	0.	0.000	0.436	93.	0.00	0.00	11.51	-31.65	-21.87	9.0
21-RESTRMS	872.	0.	0.000	0.436	153.	0.00	0.00	18.83	-51.78	-35.78	9.0
21-ELEV-LOBBY	1056.	0.	0.000	0.436	185.	0.00	0.00	22.81	-62.73	-43.34	9.0
21-OFC-S	4165.	0.	0.000	0.436	729.	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 Jul 16 15:37:27 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

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
30-DOAS-SYS	PVAVS	1.000	4000.0	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)
4000.	2.371	1.8	0.	0.000	0.0	1.000	286.202	1.000	-457.742	0.36	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		4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40 1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 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	VAVS	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)
21431.	24.193	3.5	0.	0.000	0.0	0.187	993.737	0.655	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-RESTRMS		879.	0.	0.000	0.436	164.	0.00	0.00	18.98	-52.21	-36.07 1.0
30-OFC-N		2461.	0.	0.000	0.436	460.	0.00	0.00	53.16	-146.18	-101.00 1.0
30-OFC-CORE		7098.	0.	0.000	0.436	1327.	0.00	0.00	153.32	-421.63	-291.31 1.0
30-OFC-W		3095.	0.	0.000	0.436	579.	0.00	0.00	66.85	-183.83	-127.01 1.0

30-OFC-E	2774.	0.	0.000	0.436	519.	0.00	0.00	59.91	-164.76	-113.84	1.0
30-CORR	532.	0.	0.000	0.436	100.	0.00	0.00	11.50	-31.63	-21.85	1.0
30-ELEV-LOBBY	600.	0.	0.000	0.436	112.	0.00	0.00	12.95	-35.62	-24.61	1.0
30-OFC-S	3992.	0.	0.000	0.436	746.	0.00	0.00	86.22	-237.11	-163.82	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 Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 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	PVAVS	1.000	8000.0	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)
8000.	4.743	1.8	0.	0.000	0.0	1.000	572.403	1.000	-915.484	0.36	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		4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40 2.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 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.	48.395	3.5	0.	0.000	0.0	0.187	1988.071	0.656	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	0.434	164.	0.00	0.00	18.99	-52.21	-36.07 2.0
31-OFC-N		2461.	0.	0.000	0.434	460.	0.00	0.00	53.16	-146.18	-101.00 2.0
31-OFC-CORE		7098.	0.	0.000	0.434	1327.	0.00	0.00	153.32	-421.64	-291.31 2.0

31-OFC-W	3099.	0.	0.000	0.434	580.	0.00	0.00	66.94	-184.09	-127.19	2.0
31-OFC-E	2773.	0.	0.000	0.434	519.	0.00	0.00	59.89	-164.71	-113.80	2.0
31-CORR	532.	0.	0.000	0.434	99.	0.00	0.00	11.49	-31.59	-21.83	2.0
31-ELEV-LOBBY	600.	0.	0.000	0.434	112.	0.00	0.00	12.95	-35.62	-24.61	2.0
31-OFC-S	3993.	0.	0.000	0.434	747.	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

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 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	PVAVS		1.000	36000.0		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)	
36000.	21.341	1.8	0.	0.000	0.0	1.000	2575.815	1.000	-4119.677	0.36	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		4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 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	VAVS		1.000	216149.9		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)	
200848.	226.736	3.5	0.	0.000	0.0	0.179	9309.015	0.657	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	0.430	156.	0.00	0.00	18.32	-50.37	-34.80	9.0
33-OFC-N		2426.	0.	0.000	0.430	446.	0.00	0.00	52.41	-144.12	-99.57	9.0
33-OFC-CORE		7638.	0.	0.000	0.430	1405.	0.00	0.00	164.98	-453.71	-313.47	9.0

33-IT	518.	0.	0.000	0.430	95.	0.00	0.00	9.51	-30.77	-27.98	9.0
33-OFC-W	3102.	0.	0.000	0.430	571.	0.00	0.00	67.01	-184.27	-127.31	9.0
33-OFC-E	2747.	0.	0.000	0.430	506.	0.00	0.00	59.35	-163.20	-112.76	9.0
33-CORR	504.	0.	0.000	0.430	93.	0.00	0.00	10.90	-29.96	-20.70	9.0
33-ELEV-LOBBY	600.	0.	0.000	0.430	110.	0.00	0.00	12.95	-35.62	-24.61	9.0
33-OFC-S	3932.	0.	0.000	0.430	724.	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

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
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 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	PVAVS	1.000	4000.0	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)
4000.	2.371	1.8	0.	0.000	0.0	1.000	286.202	1.000	-457.742	0.36	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	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 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	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.	23.758	3.5	0.	0.000	0.0	0.190	976.853	0.655	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	0.427	537.	0.00	0.00	61.05	-167.88	-115.99	1.0

42-RESTRMS	989.	0.	0.000	0.427	188.	0.00	0.00	21.37	-58.76	-40.60	1.0
42-OFC-CORE	6854.	0.	0.000	0.427	1302.	0.00	0.00	148.04	-407.11	-281.28	1.0
42-OFC-W	3107.	0.	0.000	0.427	590.	0.00	0.00	67.11	-184.56	-127.51	1.0
42-CORR	589.	0.	0.000	0.427	112.	0.00	0.00	12.72	-34.98	-24.17	1.0
42-ELEV-LOBBY	351.	0.	0.000	0.427	67.	0.00	0.00	7.58	-20.86	-14.41	1.0
42-OFC-N	2566.	0.	0.000	0.427	488.	0.00	0.00	55.44	-152.45	-105.33	1.0
42-OFC-S	3763.	0.	0.000	0.427	715.	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 Jul 16 15:37:27 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	PVAVS		1.000	36000.0		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)	
36000.	21.341	1.8	0.	0.000	0.0	1.000	2575.815	1.000	-4119.677	0.36	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		4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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.	218.134	3.5	0.	0.000	0.0	0.186	8960.095	0.655	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	516.	0.00	0.00	59.94	-164.84	-113.89	9.0

43-RESTRMS	989.	0.	0.000	0.423	184.	0.00	0.00	21.37	-58.76	-40.60	9.0
43-OFC-CORE	6854.	0.	0.000	0.423	1275.	0.00	0.00	148.04	-407.11	-281.28	9.0
43-OFC-W	3109.	0.	0.000	0.423	578.	0.00	0.00	67.15	-184.67	-127.59	9.0
43-CORR	589.	0.	0.000	0.423	110.	0.00	0.00	12.72	-34.98	-24.17	9.0
43-ELEV-LOBBY	700.	0.	0.000	0.423	130.	0.00	0.00	15.11	-41.56	-28.71	9.0
43-OFC-N	2695.	0.	0.000	0.423	501.	0.00	0.00	58.21	-160.07	-110.59	9.0
43-OFC-S	3760.	0.	0.000	0.423	699.	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	9.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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	PVAVS	1.000	4000.0	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)
4000.	2.371	1.8	0.	0.000	0.0	1.000	286.202	1.000	-457.742	0.36	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	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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.	23.737	3.5	0.	0.000	0.0	0.190	975.991	0.655	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	226.	0.00	0.00	25.65	-70.54	-48.74	1.0
52-OFC-E	2740.	0.	0.000	0.414	521.	0.00	0.00	59.19	-162.77	-112.46	1.0
52-OFC-CORE	6372.	0.	0.000	0.414	1211.	0.00	0.00	137.64	-378.52	-261.52	1.0
52-OFC-W	3111.	0.	0.000	0.414	591.	0.00	0.00	67.19	-184.78	-127.67	1.0
52-CORR	617.	0.	0.000	0.414	117.	0.00	0.00	13.33	-36.64	-25.32	1.0
52-ELEV-LOBBY	732.	0.	0.000	0.414	139.	0.00	0.00	15.82	-43.50	-30.05	1.0
52-OFC-N	2679.	0.	0.000	0.414	509.	0.00	0.00	57.87	-159.13	-109.95	1.0
52-OFC-S	3587.	0.	0.000	0.414	682.	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	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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	PVAVS	1.000	8000.0	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)
8000.	4.743	1.8	0.	0.000	0.0	1.000	572.403	1.000	-915.484	0.36	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	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	2.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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.	47.908	3.5	0.	0.000	0.0	0.189	1969.539	0.655	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	201.	0.00	0.00	22.97	-63.17	-43.64	2.0
53-OFC-E	2697.	0.	0.000	0.416	510.	0.00	0.00	58.26	-160.21	-110.69	2.0
53-OFC-CORE	6638.	0.	0.000	0.416	1255.	0.00	0.00	143.38	-394.29	-272.42	2.0
53-OFC-W	3111.	0.	0.000	0.416	588.	0.00	0.00	67.20	-184.80	-127.68	2.0
53-CORR	727.	0.	0.000	0.416	137.	0.00	0.00	15.69	-43.15	-29.82	2.0
53-ELEV-LOBBY	732.	0.	0.000	0.416	138.	0.00	0.00	15.82	-43.50	-30.05	2.0
53-OFC-N	2674.	0.	0.000	0.416	505.	0.00	0.00	57.75	-158.81	-109.72	2.0
53-OFC-S	3577.	0.	0.000	0.416	676.	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 Jul 16 15:37:27 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	PVAVS	1.000	28000.0	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)
28000.	16.599	1.8	0.	0.000	0.0	1.000	2003.412	1.000	-3204.193	0.36	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
55-DOAS-ZONE	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	7.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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.	167.707	3.5	0.	0.000	0.0	0.188	6897.485	0.655	0.000	0.00	0.37
ZONE	SUPPLY FLOW	EXHAUST FLOW	FAN	MINIMUM FLOW	OUTSIDE AIR FLOW	COOLING CAPACITY	EXTRACTION RATE	SENSIBLE	HEATING CAPACITY	ADDITION RATE	

NAME	(CFM)	(CFM)	(KW)	RATIO	(CFM)	(KBTU/HR)	(SHR)	(KBTU/HR)	(KBTU/HR)	(KBTU/HR)	MULTIPLIER
55-RESTRMS	1010.	0.	0.000	0.427	190.	0.00	0.00	21.82	-60.00	-41.45	7.0
55-OFC-E	2819.	0.	0.000	0.427	530.	0.00	0.00	60.89	-167.45	-115.70	7.0
55-OFC-CORE	6859.	0.	0.000	0.427	1289.	0.00	0.00	148.15	-407.40	-281.48	7.0
55-OFC-W	3112.	0.	0.000	0.427	585.	0.00	0.00	67.23	-184.88	-127.74	7.0
55-CORR	694.	0.	0.000	0.427	130.	0.00	0.00	14.98	-41.19	-28.46	7.0
55-ELEV-LOBBY	699.	0.	0.000	0.427	131.	0.00	0.00	15.10	-41.53	-28.69	7.0
55-OFC-N	2501.	0.	0.000	0.427	470.	0.00	0.00	54.03	-148.58	-102.66	7.0
55-OFC-S	3528.	0.	0.000	0.427	663.	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 Jul 16 15:37:27 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	PVAVS	1.000	4000.0	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)
4000.	2.371	1.8	0.	0.000	0.0	1.000	286.202	1.000	-457.742	0.36	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	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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.	23.457	3.5	0.	0.000	0.0	0.193	965.823	0.656	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
62-RESTRMS	1058.	0.	0.000	0.419	204.	0.00	0.00	22.86	-62.86	-43.43	1.0
62-OFC-E	2619.	0.	0.000	0.419	505.	0.00	0.00	56.56	-155.55	-107.47	1.0
62-OFC-CORE	6859.	0.	0.000	0.419	1324.	0.00	0.00	148.15	-407.40	-281.48	1.0
62-OFC-W	3114.	0.	0.000	0.419	601.	0.00	0.00	67.25	-184.94	-127.78	1.0
62-CORR	727.	0.	0.000	0.419	140.	0.00	0.00	15.69	-43.16	-29.82	1.0
62-ELEV-LOBBY	361.	0.	0.000	0.419	70.	0.00	0.00	7.79	-21.43	-14.81	1.0
62-OFC-N	2566.	0.	0.000	0.419	495.	0.00	0.00	55.42	-152.39	-105.29	1.0
62-OFC-S	3477.	0.	0.000	0.419	671.	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 Jul 16 15:37:27 2015SDL RUN 1

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

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
63-DOAS-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
63-DOAS-SYS	PVAVS	1.000	20000.0	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)
20000.	11.856	1.8	0.	0.000	0.0	1.000	1431.008	1.000	-2288.710	0.36	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	4000.	0.	0.000	1.000	4000.	0.00	0.00	99.36	-237.60	-194.40	5.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1

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

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
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.	119.165	3.5	0.	0.000	0.0	0.189	4900.995	0.655	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	200.	0.00	0.00	22.86	-62.86	-43.43	5.0
63-OFC-E	2594.	0.	0.000	0.421	490.	0.00	0.00	56.02	-154.06	-106.44	5.0
63-OFC-CORE	6997.	0.	0.000	0.421	1322.	0.00	0.00	151.13	-415.62	-287.15	5.0
63-OFC-W	3114.	0.	0.000	0.421	589.	0.00	0.00	67.27	-184.99	-127.81	5.0
63-CORR	727.	0.	0.000	0.421	137.	0.00	0.00	15.69	-43.16	-29.82	5.0
63-ELEV-LOBBY	731.	0.	0.000	0.421	138.	0.00	0.00	15.80	-43.45	-30.02	5.0
63-OFC-N	2505.	0.	0.000	0.421	473.	0.00	0.00	54.11	-148.80	-102.81	5.0
63-OFC-S	3386.	0.	0.000	0.421	640.	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 Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-69-1 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
AC-69-1	VAVS	1.000	2331.0	17.							
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)
2650.	2.833	3.3	0.	0.000	0.0	0.126	118.623	0.655	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
69-OFC	257.	0.	0.000	0.339	26.	0.00	0.00	5.55	-15.27	-10.55	1.0
69-LOCKERS	937.	0.	0.000	0.339	141.	0.00	0.00	20.24	-55.66	-38.46	1.0
69-WORKSHOP	1456.	0.	0.000	0.339	166.	0.00	0.00	31.45	-86.48	-59.75	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 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	FPFC	1.000	6814.1	1.							
SUPPLY FAN	ELEC	DELTA-T	RETURN FAN	ELEC	DELTA-T	OUTSIDE AIR	COOLING CAPACITY	SENSIBLE	HEATING CAPACITY	COOLING EIR	HEATING EIR

(CFM)	(KW)	(F)	(CFM)	(KW)	(F)	RATIO	(KBTU/HR)	(SHR)	(KBTU/HR)	(BTU/BTU)	(BTU/BTU)
10510.	0.001	1.7	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.	0.468	1.000	17.	29.86	0.68	18.86	-45.01	-45.60	2.0
30-EMR	1379.	0.	0.777	1.000	28.	49.51	0.68	31.28	-74.67	-75.64	1.0
42-EMR	1863.	0.	1.050	1.000	37.	66.56	0.68	41.61	-100.87	-102.18	1.0
52-EMR	1501.	0.	0.846	1.000	30.	54.02	0.68	34.04	-81.26	-82.31	1.0
62-EMR	1363.	0.	0.768	1.000	27.	49.23	0.68	30.91	-73.79	-74.75	1.0
RF-EMR	1448.	0.	0.816	1.000	29.	52.91	0.67	32.83	-78.38	-79.40	1.0
RF2-EMR	1294.	0.	0.729	1.000	26.	46.47	0.68	29.34	-70.04	-70.96	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
REPORT- SV-A SYSTEM DESIGN PARAMETERS AC-68-1 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
AC-68-1	FPPC	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.	0.000	1.1	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.	0.180	1.000	10.	16.82	0.70	9.02	-27.15	-27.16	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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	52490.9	10.

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)
95177.	22.342	0.7	0.	0.000	0.0	0.020	2388.464	0.790	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
6-IT	12924.	0.	0.000	1.000	258.	0.00	0.00	237.28	-767.67	-697.88	1.0
7-IT	424.	0.	0.000	1.000	8.	0.00	0.00	7.78	-25.17	-22.88	12.0
19-IT	424.	0.	0.000	1.000	8.	0.00	0.00	7.78	-25.17	-22.88	2.0
21-IT	424.	0.	0.000	1.000	8.	0.00	0.00	7.78	-25.17	-22.89	9.0
30-IT	689.	0.	0.000	1.000	14.	0.00	0.00	12.65	-40.93	-37.20	1.0
31-IT	689.	0.	0.000	1.000	14.	0.00	0.00	12.65	-40.93	-37.20	2.0
42-IT	518.	0.	0.000	1.000	10.	0.00	0.00	9.51	-30.77	-27.98	1.0
43-IT	518.	0.	0.000	1.000	10.	0.00	0.00	9.51	-30.77	-27.98	9.0
52-IT	518.	0.	0.000	1.000	10.	0.00	0.00	9.51	-30.77	-27.98	1.0
53-IT	772.	0.	0.000	1.000	15.	0.00	0.00	14.17	-45.85	-41.68	2.0
55-IT	772.	0.	0.000	1.000	15.	0.00	0.00	14.18	-45.87	-41.70	7.0
62-IT	772.	0.	0.000	1.000	15.	0.00	0.00	14.18	-45.87	-41.70	1.0
63-IT	495.	0.	0.000	1.000	10.	0.00	0.00	9.08	-29.38	-26.71	5.0
69-BMS	250.	0.	0.000	1.000	5.	0.00	0.00	4.60	-14.87	-13.52	1.0
5-ELEC-GEN	32451.	0.	0.000	1.000	649.	0.00	0.00	595.80	-1927.58	-1752.34	1.0
6-ELEC	358.	0.	0.000	1.000	7.	0.00	0.00	6.57	-21.27	-19.34	1.0
7-ELEC	358.	0.	0.000	1.000	7.	0.00	0.00	6.57	-21.27	-19.34	12.0
19-ELEC	358.	0.	0.000	1.000	7.	0.00	0.00	6.58	-21.27	-19.34	2.0
21-ELEC	358.	0.	0.000	1.000	7.	0.00	0.00	6.57	-21.27	-19.34	9.0
30-ELEC	358.	0.	0.000	1.000	7.	0.00	0.00	6.57	-21.27	-19.34	1.0
31-ELEC	358.	0.	0.000	1.000	7.	0.00	0.00	6.58	-21.27	-19.34	2.0
33-ELEC	358.	0.	0.000	1.000	7.	0.00	0.00	6.57	-21.27	-19.34	9.0
1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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 ----- (CONTINUED) -----											
42-ELEC	358.	0.	0.000	1.000	7.	0.00	0.00	6.57	-21.27	-19.34	1.0
43-ELEC	358.	0.	0.000	1.000	7.	0.00	0.00	6.57	-21.27	-19.34	9.0
52-ELEC	358.	0.	0.000	1.000	7.	0.00	0.00	6.57	-21.27	-19.34	1.0

53-ELEC	358.	0.	0.000	1.000	7.	0.00	0.00	6.57	-21.27	-19.34	2.0
55-ELEC	307.	0.	0.000	1.000	6.	0.00	0.00	5.64	-18.23	-16.58	7.0
62-ELEC	307.	0.	0.000	1.000	6.	0.00	0.00	5.64	-18.23	-16.58	1.0
63-ELEC	307.	0.	0.000	1.000	6.	0.00	0.00	5.64	-18.23	-16.58	5.0
68-ELEC	307.	0.	0.000	1.000	6.	0.00	0.00	5.64	-18.23	-16.58	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
 REPORT- SV-A SYSTEM DESIGN PARAMETERS HV-68-345 WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE							
HV-68-345	PVAVS	1.000	17859.6	4.							
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)
24040.	22.347	2.9	0.	0.000	0.0	0.070	738.846	0.703	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
68-MECH	24040.	0.	0.000	0.445	1690.	0.00	0.00	441.37	-1427.95	-1298.14	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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	41323.1	8.							
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)
105198.	24.694	0.7	0.	0.000	0.0	0.996	7321.880	1.000	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	418.	0.	0.000	0.445	8.	0.00	0.00	7.67	-24.81	-22.55	1.0
6-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
7-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	12.0

19-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	2.0
21-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	9.0
30-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
31-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	2.0
33-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	9.0
42-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
43-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	9.0
52-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
53-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	2.0
55-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	7.0
62-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
63-MECH	1690.	0.	0.000	0.445	1690.	0.00	0.00	31.03	-100.39	-91.26	5.0

1 DOE 2.1E

MANHATTAN WEST

DOE-2.1E-121 Thu Jul 16 15:37:27 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	35857.1		20.						
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)	
30085.	7.062	0.7	0.	0.000	0.0	0.185	1149.839	0.656	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
	2178.		0.	0.000	0.551	44.	0.00	0.00	39.99	-129.38	-117.62	1.0
	2127.		0.	0.000	0.551	43.	0.00	0.00	39.04	-126.32	-114.84	1.0
	427.		0.	0.000	0.551	9.	0.00	0.00	7.84	-25.36	-23.05	1.0
	1604.		0.	0.000	0.551	32.	0.00	0.00	29.45	-95.28	-86.62	1.0
	1653.		0.	0.000	0.551	33.	0.00	0.00	30.36	-98.21	-89.28	1.0
	1435.		0.	0.000	0.551	29.	0.00	0.00	26.35	-85.25	-77.50	1.0
	377.		0.	0.000	0.551	8.	0.00	0.00	6.92	-22.39	-20.36	1.0
	407.		0.	0.000	0.551	8.	0.00	0.00	7.47	-24.17	-21.97	9.0

30-STORAGE	1690.	0.	0.000	0.551	1690.	0.00	0.00	31.03	-100.39	-91.26	1.0
31-STORAGE	1690.	0.	0.000	0.551	1690.	0.00	0.00	31.03	-100.39	-91.26	2.0
33-STORAGE	164.	0.	0.000	0.551	3.	0.00	0.00	3.02	-9.76	-8.87	9.0
42-STORAGE	164.	0.	0.000	0.551	3.	0.00	0.00	3.02	-9.76	-8.87	1.0
43-STORAGE	637.	0.	0.000	0.551	13.	0.00	0.00	11.69	-37.83	-34.39	9.0
52-STORAGE	307.	0.	0.000	0.551	6.	0.00	0.00	5.64	-18.24	-16.58	1.0
53-STORAGE	260.	0.	0.000	0.551	5.	0.00	0.00	4.77	-15.42	-14.02	2.0
68-STORAGE	1139.	0.	0.000	0.551	23.	0.00	0.00	20.91	-67.65	-61.50	1.0
RF-STORAGE	621.	0.	0.000	0.551	12.	0.00	0.00	11.41	-36.91	-33.56	1.0
69-STORAGE	1590.	0.	0.000	0.551	32.	0.00	0.00	29.19	-94.44	-85.86	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015SDL RUN 1

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

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL
STAIR-SYS

WEATHER FILE- NEW YORK CENTRAL NY

SYSTEM NAME	SYSTEM TYPE		ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)		MAX PEOPLE					
STAIR-SYS	PVAVS		1.000	48378.2		346.					
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)
29149.	6.843	0.7	0.	0.000	0.0	0.020	944.174	0.694	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-STAIR	127.	0.	0.000	0.664	3.	0.00	0.00	2.33	-7.53	-6.85	1.0
B-STAIR	358.	0.	0.000	0.664	7.	0.00	0.00	6.58	-21.27	-19.34	1.0
G-STAIR	611.	0.	0.000	0.664	12.	0.00	0.00	11.23	-36.32	-33.02	1.0
2-STAIR	402.	0.	0.000	0.664	8.	0.00	0.00	7.37	-23.85	-21.68	1.0
3-STAIR	402.	0.	0.000	0.664	8.	0.00	0.00	7.38	-23.88	-21.71	1.0
4-STAIR	534.	0.	0.000	0.664	11.	0.00	0.00	9.80	-31.70	-28.81	1.0
5-STAIR	390.	0.	0.000	0.664	8.	0.00	0.00	7.15	-23.15	-21.04	1.0
6-STAIR	396.	0.	0.000	0.664	8.	0.00	0.00	7.27	-23.50	-21.37	1.0
7-STAIR	396.	0.	0.000	0.664	8.	0.00	0.00	7.27	-23.50	-21.37	12.0

19-STAIR	395.	0.	0.000	0.664	8.	0.00	0.00	7.25	-23.47	-21.33	2.0
21-STAIR	396.	0.	0.000	0.664	8.	0.00	0.00	7.26	-23.50	-21.36	9.0
30-STAIR	395.	0.	0.000	0.664	8.	0.00	0.00	7.25	-23.47	-21.33	1.0
31-STAIR	395.	0.	0.000	0.664	8.	0.00	0.00	7.25	-23.47	-21.34	2.0
33-STAIR	401.	0.	0.000	0.664	8.	0.00	0.00	7.36	-23.80	-21.64	9.0
42-STAIR	401.	0.	0.000	0.664	8.	0.00	0.00	7.37	-23.83	-21.66	1.0
43-STAIR	401.	0.	0.000	0.664	8.	0.00	0.00	7.37	-23.83	-21.66	9.0
52-STAIR	401.	0.	0.000	0.664	8.	0.00	0.00	7.37	-23.83	-21.66	1.0
53-STAIR	401.	0.	0.000	0.664	8.	0.00	0.00	7.37	-23.83	-21.66	2.0
55-STAIR	434.	0.	0.000	0.664	9.	0.00	0.00	7.96	-25.75	-23.41	7.0
62-STAIR	434.	0.	0.000	0.664	9.	0.00	0.00	7.96	-25.75	-23.41	1.0
63-STAIR	432.	0.	0.000	0.664	9.	0.00	0.00	7.93	-25.64	-23.31	5.0
68-STAIR	428.	0.	0.000	0.664	9.	0.00	0.00	7.86	-25.42	-23.11	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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

----- (CONTINUED) -----											
69-STAIR	235.	0.	0.000	0.664	5.	0.00	0.00	4.31	-13.94	-12.67	1.0
RF-STAIR	276.	0.	0.000	0.664	6.	0.00	0.00	5.07	-16.41	-14.92	1.0
RF2-STAIR	259.	0.	0.000	0.664	5.	0.00	0.00	4.75	-15.38	-13.98	1.0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 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)	
70000.		29.783		1.3		47000.		28.261		1.9	

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)	
45000.		16.658		1.1		42000.		15.867		1.2		1.000		3168.581		1.000		-5740.387		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		45000.		0.		0.000		1.000		45000.		0.00		0.00		1701.00		-2673.00		-2430.00		1.0	
DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jan 29 18:21:33 2015SDL RUN 1																							
note: unchanged from January 2015)																							
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
 (note: unchanged from January 2015)

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 U-VALUE/WINDOWS (BTU/HR-SQFT-F)	AVERAGE U-VALUE/WALLS (BTU/HR-SQFT-F)	AVERAGE U-VALUE WALLS+WINDOWS (BTU/HR-SQFT-F)	WINDOW AREA (SQFT)	WALL AREA (SQFT)	WINDOW+WALL 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 Jul 16 15:37:27 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

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

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	3753	819	437	163	68	21	11	5	2	3	0	5282	23878.0	0.0	0.	23878.1	
	3753	819	437	163	68	21	11	5	2	3	0						
ELEC-DHW-HEATER	5748	1324	1147	436	105	0	0	0	0	0	0	8760	2055.7	0.0	814074.	0.0	
	5748	1324	1147	436	105	0	0	0	0	0	0						
OPEN-CENT-CHLR	1320	1470	236	204	232	356	404	562	551	391	0	5726	39172.7	0.0	1711562.	0.0	
	3609	735	586	414	226	96	54	2	4	0	0						
ABSORG-CHLR	0	682	911	407	214	141	161	310	256	2774	0	5856	13806.6	0.0	38730.	12714.4	
	0	682	911	407	214	141	161	310	256	2774	0						
COOLING-TWR	4342	749	690	597	585	761	750	250	25	11	0	8760	76619.4	0.0	2971980.	0.0	
	6113	543	401	380	326	322	504	171	0	0	0						

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 183385. KWH
COLD LOOP CIRCULATION PUMP ELECTRICAL USE = 1262992. KWH
CONDENSER WATER PUMP ELECTRICAL USE = 2370663. KWH
TOWER OR CONDENSER FAN ELECTRICAL USE = 601376. 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

MANHATTAN WEST

DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 1

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

REPORT- PS-D

PLANT LOADS SATISFIED

WEATHER FILE- NEW YORK CENTRAL NY

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	23878.0	92.1
ELEC-DHW-HEATER	2055.7	7.9
ABSORG-CHLR	0.1	0.0
	=====	=====
LOAD SATISFIED	25933.9	100.0
TOTAL LOAD ON PLANT	25934.1	
COOLING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
OPEN-CENT-CHLR	39172.7	73.9
ABSORG-CHLR	13806.6	26.1
	=====	=====
LOAD SATISFIED	52979.2	100.0
TOTAL LOAD ON PLANT	52979.1	
ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
ELECTRICITY	29354832.0	100.0
	=====	=====
LOAD SATISFIED	29354832.0	100.0
TOTAL LOAD ON PLANT	29358210.0	

TOWER ABOVE DESIGN TEMPERATURE OF 88.F 2 HOURS
MAXIMUM TOWER EXIT TEMPERATURE = 90.F

1 DOE 2.1E

MANHATTAN WEST

DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 1

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

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	25934.1	25933.9	0.000	0.000	0
COOLING LOADS	52979.1	52979.2	0.000	0.000	0
ELECTRICAL LOADS	100198.7	100187.1	0.000	0.000	0

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 1

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	865511.	795387.	910160.	876801.	864929.	876678.	880313.	894492.	861437.	865186.	846489.	879758.	10417142.
MAX KW	1824.5	1824.5	1820.4	1814.4	1814.4	1814.4	1814.4	1814.4	1814.4	1816.9	1824.5	1824.5	1824.5
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	599381.	546924.	619462.	597903.	599381.	597903.	607241.	611602.	590043.	599381.	582183.	603742.	7155146.
MAX KW	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
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	61830.	64622.	95360.	41927.	129834.	314795.	451848.	388429.	220808.	45634.	22306.	68516.	1905908.
MAX KW	432.6	418.5	768.3	1070.4	1346.2	1351.1	1810.7	2335.0	1404.1	819.8	297.6	404.0	2335.0
DAY/HR	19/13	26/13	16/16	28/16	28/18	23/17	23/17	17/15	3/15	1/16	6/14	8/14	
0 HEAT REJECT	170906.	154974.	179189.	120567.	227474.	394470.	527662.	469544.	318405.	131529.	106922.	170379.	2972022.
MAX KW	464.5	464.0	633.5	1102.7	1322.8	1322.8	1542.8	1762.8	1322.8	811.6	384.6	463.5	1762.8
DAY/HR	19/13	26/13	16/14	28/11	28/17	2/16	23/17	17/15	3/14	18/17	5/14	8/14	
0PUMPS & MISC	126309.	112894.	123614.	119917.	117068.	116225.	136717.	129018.	104875.	120083.	119580.	124987.	1451285.
MAX KW	246.6	211.4	193.5	279.1	320.1	313.8	364.9	439.4	294.8	228.4	190.5	216.0	439.4
DAY/HR	23/ 5	22/ 5	16/14	28/15	28/17	1/ 6	23/18	17/15	3/16	1/16	26/ 5	27/ 5	
0 VENT FANS	325204.	291255.	315035.	293215.	294969.	334553.	355601.	347310.	307054.	281858.	279318.	316292.	3741666.
MAX KW	730.6	703.6	723.5	831.0	970.3	994.7	1051.9	1123.4	981.1	796.3	739.6	689.0	1123.4
DAY/HR	23/10	18/12	16/12	28/18	10/16	22/17	21/18	17/17	7/17	1/17	2/12	30/12	
0DOMHOT WATER	75164.	72234.	85145.	79427.	68170.	62541.	55521.	56600.	56642.	62220.	66650.	73766.	814080.
MAX KW	371.5	384.8	385.8	372.8	329.0	277.9	242.9	240.3	253.8	292.9	324.7	349.1	385.8
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	2299466.	2106896.	2406098.	2205104.	2376486.	2772085.	3090477.	2974047.	2533382.	2180746.	2096523.	2313556.	29354866.

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 1

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

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	7245.7	4776.5	2913.7	885.7	206.7	0.0	0.0	0.0	0.3	681.3	1951.6	5216.7	23878.2
	MAX MBTU	55.295	38.127	24.363	16.896	5.857	0.000	0.000	0.000	0.343	9.969	27.962	40.398	55.295
	DAY/HR	23/ 5	22/ 5	8/ 5	5/ 5	5/ 8	0/ 0	0/ 0	0/ 0	20/ 8	26/ 6	26/ 5	27/ 5	
0	SPACE COOL	0.0	0.0	0.0	1080.9	1557.4	1875.0	2082.3	2008.9	1791.3	1234.5	1084.1	0.0	12714.3
	MAX MBTU	0.000	0.000	0.000	3.140	3.345	3.241	3.427	3.550	3.285	3.102	3.089	0.000	3.550
	DAY/HR	0/ 0	0/ 0	0/ 0	28/14	30/15	23/19	24/14	17/16	3/15	18/19	5/ 8	0/ 0	
		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
0	TOTAL MBTU	7245.7	4776.5	2913.7	1966.6	1764.1	1875.0	2082.3	2008.9	1791.6	1915.8	3035.7	5216.7	36592.5

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 2
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

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	1375	666	566	408	195	107	58	21	1	4	1	3402	221.8	0.0	0.	221.8		
	1375	666	566	408	195	107	58	21	1	4	1							
DHW-HEATER	8760	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							

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 693. 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 MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 2
 ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- PS-D PLANT LOADS SATISFIED WEATHER FILE- NEW YORK CENTRAL NY

HEATING LOADS	MBTU SUPPLIED	PCT OF TOTAL LOAD
-----	-----	-----
HW-BOILER	221.8	47.7
DHW-HEATER	242.9	52.3
	=====	=====

100.0

PCT OF TOTAL LOAD

100.0

DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 2

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

WEATHER FILE- NEW YORK CENTRAL NY

--- (CONTINUED) ---

SUMMARY OF LOADS MET

PEAK	HOURS
1	10:00
2	10:00
3	10:00
4	10:00
5	10:00
6	10:00
7	10:00
8	10:00
9	10:00
10	10:00
11	10:00
12	10:00
13	10:00
14	10:00
15	10:00
16	10:00
17	10:00
18	10:00
19	10:00
20	10:00
21	10:00
22	10:00
23	10:00
24	10:00
25	10:00
26	10:00
27	10:00
28	10:00
29	10:00
30	10:00
31	10:00
32	10:00
33	10:00
34	10:00
35	10:00
36	10:00
37	10:00
38	10:00
39	10:00
40	10:00
41	10:00
42	10:00
43	10:00
44	10:00
45	10:00
46	10:00
47	10:00
48	10:00
49	10:00
50	10:00
51	10:00
52	10:00
53	10:00
54	10:00
55	10:00
56	10:00
57	10:00
58	10:00
59	10:00
60	10:00
61	10:00
62	10:00
63	10:00
64	10:00
65	10:00
66	10:00
67	10:00
68	10:00
69	10:00
70	10:00
71	10:00
72	10:00
73	10:00
74	10:00
75	10:00
76	10:00
77	10:00
78	10:00
79	10:00
80	10:00
81	10:00
82	10:00
83	10:00
84	10:00
85	10:00
86	10:00
87	10:00
88	10:00
89	10:00
90	10:00
91	10:00
92	10:00
93	10:00
94	10:00
95	10:00
96	10:00
97	10:00
98	10:00
99	10:00
100	10:00

DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 2

SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- PS-E MONTHLY ENERGY END-USE SUMMARY

WEATHER FILE- NEW YORK CENTRAL NY

0ELECTRICAL END-USES IN KWH

[illegible]

=====
0 TOTAL KWH 13670. 12353. 14501. 14756. 19966. 22290. 26071. 24637. 21542. 17366. 14299. 13562. 215013.

0FUEL END-USES IN MBTU

Table with 14 columns: Equipment, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DEC, TOTAL. Rows include SPACE HEAT, MAX MBTU, DAY/HR, ODOMHOT WATER, MAX MBTU, DAY/HR, and TOTAL MBTU.

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 1
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEW YORK CENTRAL NY

Table with 14 columns: Equipment, SIZE, INSTD, AVAIL, NUMBER. Rows include HW-BOILER, ELEC-DHW-HEATER, OPEN-CENT-CHLR, ABSORG-CHLR, and COOLING-TWR.

1 DOE 2.1E MANHATTAN WEST DOE-2.1E-121 Thu Jul 16 15:37:27 2015PDL RUN 2
ANYEC: NYSECCC code compliance for EN1 SIM: VIRIDIAN ENERGY & ENVIRONMENTAL

REPORT- PV-A EQUIPMENT SIZES WEATHER FILE- NEW YORK CENTRAL NY

Table with 14 columns: Equipment, SIZE, INSTD, AVAIL, NUMBER. Rows include HW-BOILER and DHW-HEATER.