ROBISON ENGINEERING, INC.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

PRCTI20251445

WSEC C407
ENERGY REPORT

PROJECT:
East Town Crossing
Lot-1 Commercial
3002 E Pioneer Way, Puyallup, WA 98372
P/N: 0420264053

Report Prepared by:
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Job Number:
810-010

Date:
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Table of Content

1. EXECUTIVE SUMMARY

In this analysis, the Total Building Performance (TBP) modeling protocol has been adopted per Section C407 of the 2021 WSEC. The proposed project consists of 1-story above-grade structure featuring a total conditioned floor area of 4,992 SQFT that includes 2 tenants. Preliminary results of the project achieves C407 compliance by obtaining a Regulated Performance Cost Index (PCI Regulated) of 0.40, and Total Project Performance Cost Index of 0.549, both below the maximum allowable limits of 0.57 and 0.55, respectively.

Table 1.1: Proposed Building Details

Building Information	
Project Name	*East Town Crossing*
Project Address	*Puyallup, WA*
Building type	*Mixed Use*
Construction Year	*2026*
Building size	*1-story above-grade structure*
Conditioned Floor Area	*4,992 SF*
Unit Types	*Tenant-1: Resturant - Tenant-2:Fitness Center*
Compliance Path	*2021 WSEC C407*

Table 1.2: Performance Cost Index calculations

Performance Rating Summary				
Baseline Building Unregulated Energy Cost	BBUEC.	101,836	kBtu / yr	
Baseline Building Regulated Energy Cost	BBREC	311,689	kBtu / yr	
Baseline Building Perfirmance	BBP	413,526	kBtu / yr	
Regulated Site Energy Target				COMPLIES
Proposed Buidling Performance	PBP Regulated	125,222	kBtu / yr	
Buidling Performance Factor	BPF	0.43		
Target Regulated Performance Cost Index	PCI t	0.57		
Proposed Regulated Performance Cost Index	PCI Regulated	0.40		
Total Site Energy Target				COMPLIES
Proposed Buidling Performance	PBP Total	227,058	kBtu / yr	
Target Site Energy Performance Factor	SEPF	0.55		
Proposed Performance Cost Index	PCI Total	0.55		

2. METHODOLOGY DESCRIPTION

To comply with the requirements of ASHRAE Standard 90.1–2022 Appendix G, EnergyPro software was used, which aligns with ASHRAE Standard 140 and uses the DOE-2.1E* v119 software engine licensed from the Department of Energy to provide a highly accurate hourly simulation of building energy use. The software capabilities include but not limited to:

1. Full Calendar Year Operation: Simulates building operation for a full calendar year, totaling 8,760 hours.
2. Comprehensive Climate Data: Incorporates a full year's climate data (8,760 hours), with approved coincident hourly data for temperature, solar radiation, humidity, and wind speed specific to the building's location.
3. Multiple Thermal Zones: Can handle ten or more thermal zones.
4. Thermal Mass Effects: Accounts for the effects of thermal mass.
5. Hourly Variations in Building Use: Simulates hourly changes in occupancy, illumination, receptacle loads, thermostat settings, mechanical ventilation, HVAC equipment availability, service hot water usage, and any process loads.
6. Part-load Performance Curves: Includes part-load performance curves for mechanical equipment.
7. Heating and Cooling Equipment Performance: Features capacity and efficiency correction curves for mechanical heating and cooling equipment.

3. PERFORMANCE-BASED COMPLIANCE (C407.3)

To set the standards for meeting Appendix G Performance Rating Method of ASHRAE Standard 90.1–2022, the following key inputs outlined in Table 3.1 below were used to obtain the results in this report.

Table-3.1: Energy Model General Inputs

Methodology	
Simulation Program:	*EnergyPro*
Energy Code Used:	*ASHRAE 90.1 - 2022*
New Construction Percent:	*100%*
Weather File:	*WA_Seattle_Boeing_Field.bin*
Climate Zone:	*DOE Climate Zone 4C*
Latitude:	*47*
Longitude:	*-122*
Building Performance Factor	*BPF = 0.43*
Site Energy Performance Factor	*SEPT = 0.55*

4. RESULTS

Graph-4.1.1: Energy Use Summary

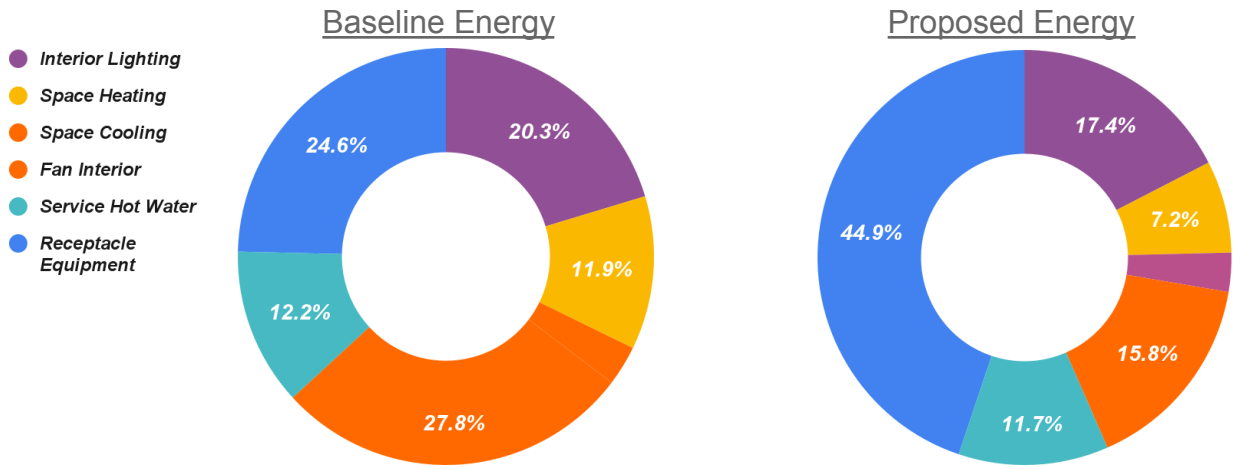


Table-4.1.1: Energy Use Reduction Summary

Energy Use Reduction									
End Use	**Design Energy Type**	**Regulated / Unregulated**	**Baseline Building**			**Proposed Building**		**Compliance Margin**	**Compliance Weight**
			Energy Use	Site Energy at BPF=1	Site Energy at BPF=0.43	Energy Use	Site Energy		
Interior Lighting	Electricity	R	24,658 kWh 5 kW	84,084 kBtu	36,156 kBtu	11,614 kWh 2 kWh	39,604 kBtu	-10%	15%
Space Heating	N. Gas	R	492 kWh 90 kW	49,200 kBtu	21,156 kBtu	0 kWh 0 kWh	16,307 kBtu	23%	9%
	Electricity	R	0 kWh 0 kW			4,782 kWh 11 kWh			
Space Cooling	Electricity	R	3,768 kWh 10 kW	12,849 kBtu	5,525 kBtu	2,024 kWh 6 kWh	6,902 kBtu	-25%	2%
Pumps	Electricity	R	0 kWh 0 kW	0 kBtu	0 kBtu	0 kWh 0 kWh	0 kBtu	#DIV/0!	0%
Fan Interior	Electricity	R	33,741 kWh 5 kW	115,057 kBtu	49,474 kBtu	10,498 kWh 2 kWh	35,798 kBtu	28%	21%
Service Hot Water	N. Gas	R	505 kWh 10 kW	50,500 kBtu	21,715 kBtu	0 kWh 0 kWh	26,612 kBtu	-23%	9%
	Electricity	R	0 kWh 0 kW			7,804 kWh 2 kWh			
Receptacle Equipment	Electricity	UR	29,864 kWh 6 kW	101,836 kBtu	101,836 kBtu	29,864 kWh 6 kWh	101,836 kBtu	0%	43%
Renewable Energy	Electricity	UR	0 kWh 0 kW	0 kBtu	0 kBtu	0 kWh 0 kW	0 kBtu	-%	0%

Table-4.1.2: Energy Savings Summary (With Renewable)

WSEC C407.3 (2.1) Regulated Site Energy Target *COMPLIES*										
Energy Type	Baseline Design				Proposed Design		Energy Savings	PCI	PCI t	Compliance Margin
	Total Energy		Regulated Energy	Regulated Energy [Reduced] BPF=0.43	Total Energy					
Elec.	92,031 kWh	413,526 kBtu	311,689 kBtu	134,026 kBtu	66,586 kWh	125,222 kBtu	60%	0.40	0.57	**30%**
N. Gas	997 therms				0 therms					

Table-4.1.3: Energy Savings Summary (Without Renewable)

WSEC C407.3 (2.2) Total Site Energy Target *COMPLIES*										
Energy Type	Baseline Design					Proposed Design		Energy Savings	PCI	SEP t	Compliance Margin
	Total Energy		Regulated Energy	Unregulated Energy	Total Energy [Reduced] BPF=0.43	Energy Use	Total Energy				
Elec.	92,031 kWh	413,526 kBtu	311,689 kBtu	101,836 kBtu	235,863 kBtu	66,586 kWh	227,058 kBtu	45%	0.55	0.55	**0%**
N. Gas	997 therms					0 therms					

Graph-4.1.1: Energy Use Summary

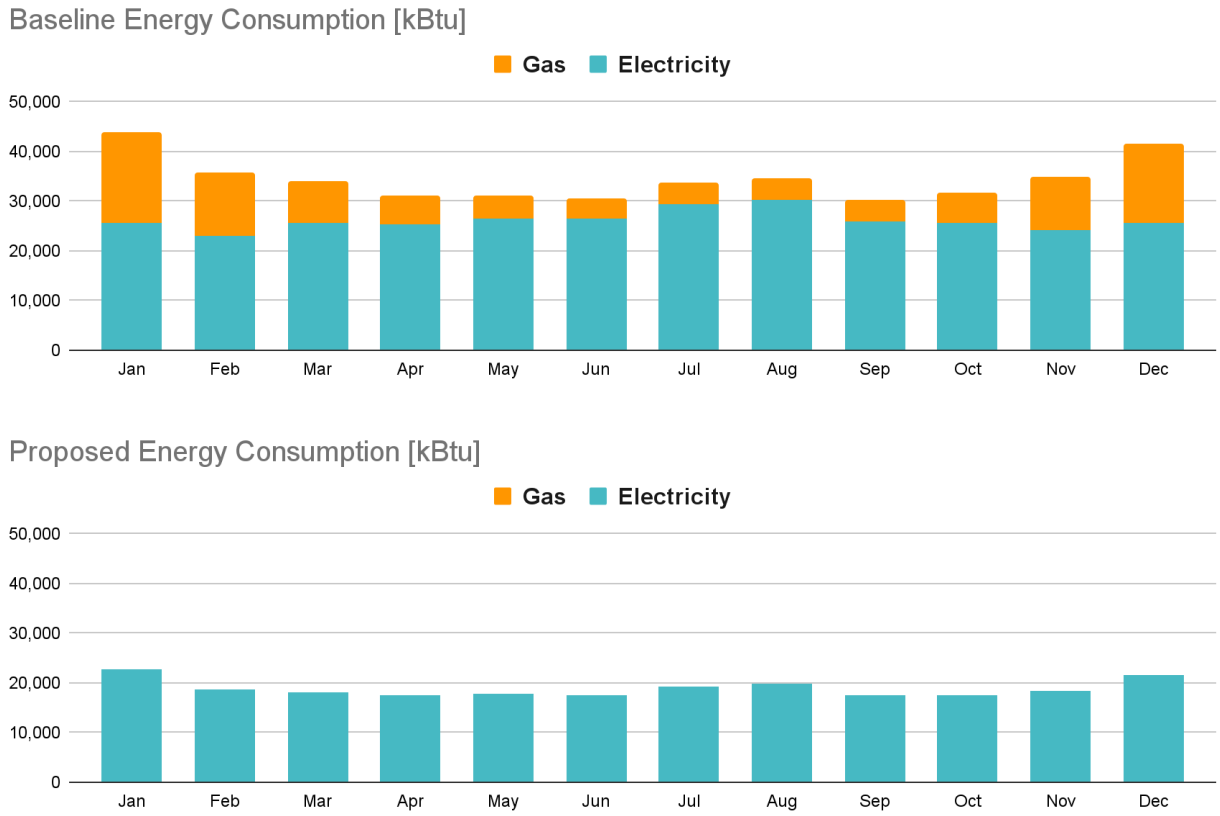


Table-4.2.1: Monthly Energy Use - Baseline

Baseline Energy Use Summary						
Month	Electricity			Gas		
	Energy Use [kWh]	Energy Use [kBtu]	Peak Demand [kW]	Energy Use [therms]	Energy Use [kBtu]	Peak Demand [kBtu/hr]
Jan	7,516	25,630	16	183	18,300	95
Feb	6,750	23,018	17	129	12,900	99
Mar	7,502	25,582	17	85	8,500	54
Apr	7,465	25,456	22	56	5,600	43
May	7,776	26,516	23	47	4,700	32
Jun	7,744	26,407	24	42	4,200	15
Jul	8,605	29,343	26	43	4,300	10
Aug	8,873	30,257	26	43	4,300	10
Sep	7,644	26,066	24	42	4,200	23
Oct	7,532	25,684	19	60	6,000	49
Nov	7,110	24,245	19	107	10,700	84
Dec	7,516	25,630	16	160	16,000	97
Year	92,033	313,833	25.5	997	99,700	99.0

Table-4.2.2: Monthly Energy Use - Proposed

Proposed Energy Use Summary						
Month	Electricity			Gas		
	Energy Use [kWh]	Energy Use [kBtu]	Peak Demand [kW]	Energy Use [therms]	Energy Use [kBtu]	Peak Demand [kBtu/hr]
Jan	6,633	22,619	17	0	0	0
Feb	5,519	18,820	18	0	0	0
Mar	5,337	18,199	15	0	0	0
Apr	5,116	17,446	15	0	0	0
May	5,239	17,865	15	0	0	0
Jun	5,172	17,637	16	0	0	0
Jul	5,675	19,352	17	0	0	0
Aug	5,847	19,938	17	0	0	0
Sep	5,132	17,500	16	0	0	0
Oct	5,162	17,602	13	0	0	0
Nov	5,386	18,366	16	0	0	0
Dec	6,367	21,711	18	0	0	0
Year	66,585	227,055	17.7	0	0	0.0

Table-4.2.3: Monthly Energy Use - Margin

Margin Energy Use Summary						
Month	Electricity			Gas		
	Energy Use [kWh]	Energy Use [kBtu]	Peak Demand [kW]	Energy Use [therms]	Energy Use [kBtu]	Peak Demand [kBtu/hr]
Jan	883	3,011	-1	183	624	95
Feb	1,231	4,198	-1	129	440	99
Mar	2,165	7,383	2	85	290	54
Apr	2,349	8,010	7	56	191	43
May	2,537	8,651	7	47	160	32
Jun	2,572	8,771	8	42	143	15
Jul	2,930	9,991	8	43	147	10
Aug	3,026	10,319	9	43	147	10
Sep	2,512	8,566	8	42	143	23
Oct	2,370	8,082	6	60	205	49
Nov	1,724	5,879	3	107	365	84
Dec	1,149	3,918	-2	160	546	97
Year	25,448	86,778	8.5	997	3,400	99.0

5. Building Components Summary:

5.1. Opaque Building Envelope Construction

Table-5.1.1: General Envelope Areas for Conditioned spaces used in Proposed and Baseline Models

Envelope General Information (conditioned spaces only) 6, 7, 8			
Opaque Surfaces & Orientation	**Total Gross Surface Area (sqft)**	**Total Fenestration Area (sqft)**	**Window to Wall Ratio (%)**
North-Facing 1	1,299	497	38%
East-Facing 2	788	111	14%
South-Facing 3	1,299	392	30%
West-Facing 4	788	245	31%
Total	4,174	1,245	30%
Roof	3,428	0	0%

Notes
1 North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),
2 East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),
3 South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),
4 West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),
5 All vertical glazing flush with exterior wall and no shading projections per Table G3.1#5(c)
6 No manual shading devices such as blinds or shades per Table G3.1#5(c)
7 No self-shading per Table G3.1#5
8 Total vertical fenestration areas for new construction equal to Proposed up to 40% maximum, and distributed on each face of the building in the same proportions as the Proposed design per Table G3.1#5(c)

Table-5.1.2: Building Surface Assemblies Used in Proposed and Baseline Models

Opaque Surface Assembly Summary								
Surface Name	**Proposed**							**Baseline**
	Con. Type	**Area (sqft)**	**Frame Type**	**Cavity R-Value**	**Cont. R-Value**	**U-Value**	**Description of Assembly Layers**	**U-Value 1**
R-21 Wall Wood Frame	Exterior Wall	4,174	Wood	21	0	0.051	- Gypsum Board - 5/8 in - Wood Frame Wall - 16inOC - 2x6 - R21 ins. - Gypsum Board - 5/8 in	0.124 1
R-0 Slab On Grade	Underground Floor	3,428	Con.	0	0	0.73	- Concrete - 140 lb/ft3 - 6 in.	0.73 3
R-38 Roof (Main)	Roof	3,428	Wood	30	0	0.049	- Attic Roof R-30 Batt Insulation - Roof Assembly per Architect	0.063 4, 5

Opaque Surface Assembly Summary								
Surface Name	Proposed							Baseline
	Con. Type	Area (sqft)	Frame Type	Cavity R-Value	Cont. R-Value	U-Value	Description of Assembly Layers	U-Value 1

Notes
1 New above-grade walls: steel-framed with U-factor from appropriate Table 5.5 per Table G3.1#5(b)
2 New floors: steel-joist with U-factor from appropriate Table 5.5 per Table G3.1#5(b).
3 New slab-on-grade floors: unheated 6" concrete slab with F-factor from appropriate Table 5.5 per Table G3.1#5(b).
4 New roofs: insulation entirely above deck with U-factor from appropriate Table 5.5 per Table G3.1#5(b).
5 Baseline Roof Reflectivity Modeled as 0.3 per Table G3.1#5(e)
5 Opaque envelope assemblies separating conditioned space from unconditioned or semiheated space are modeled using semiheated envelope assemblies per the ASHRAE 90.1-2007 User's Manual , Section 5.1.1, Envelope Component Assemblies (Page 5-2).
6 All Baseline new construction opaque envelope assemblies were modeled as required by Table 5.5 for the project's climate zone and Table G3.1#5(b) as delayed assemblies. See the Helpful Notes for each opaque assembly for more information.
7 All Proposed roofs, above-grade exterior walls, below-grade exterior walls, exposed floors, slab-on-grade floors, and opaque doors were modeled as-designed and with assembly U-factors / C-factors / F-factors consistent with Appendix A values
8 Infiltration rates and schedules have been modeled identically in the Baseline and Proposed case

Table-5.1.3: Fenestration Assemblies Used in Proposed and Baseline Models

Fenestration Assembly Summary								
Fenestration Assembly Name	Proposed						Baseline	
	Fenestration Type / Product Type / Frame Type	Certification Method	Assembly Method	Area (sqft)	Overall U-Value	Overall SHGC	Overall U-Value 3	Overall SHGC 3
Fixed Windows 1	Vertical Fenestration Fixed Window Metal Frame	NFRC Rated	Manufactured	988	0.3	0.38	0.57	0.39
Entrance Glazed Doors 4	Vertical Fenestration Public Entrance Metal Frame	NFRC Rated	Manufactured	257	0.6	0.38	0.57	0.39

Notes
1 "Fixed" includes curtain wall, storefront, picture windows, and other fixed windows.
2 "Operable" includes openable fenestration products other than "entrance doors."
3 U-Value and SHGC used for the baseline is based on Table G3.4-4 ASHRAE Standard 90.1 2022

5.2. Interior Lighting

Table-5.2.1: Interior Lighting Densities Used in Proposed and Baseline Models

Interior Lighting 1			
Table 9.6.1 Space Type	**Total Area of Space Type (SF)**	**Baseline Case**	**Proposed Case**
		Modeled LPD (Excluding Section 9.6.2 Additional Lighting) (W/SF) 2	**Modeled LPD (W/SF) 3**
Tenant-1	2,964	0.70	0.45
Tenant-2	2,027	0.70	0.75
Total	4,991	0.70	0.57

Notes
1 All lighting schedules have been modeled identically in the Baseline and Proposed case and reflect the anticipated operating schedules of each space.
2 Baseline LPD is modeled using the maximum allowance from Table 9.6.1
3 The Proposed lighting power includes all lighting system components shown or provided for on the plans (including lamps and ballasts and task and furniture-mounted fixtures except where specifically exempted)

5.3. Process Equipment

Table-5.3.1: Process Equipment Densities Used in Proposed and Baseline Models

Process Equipment 1, 2, 3			
Space Type	Total Area of Space Type (SF)	Baseline Case	Proposed Case
		Equipment Power Density (W/SF)	Equipment Power Density (W/SF)
Tenant-1	2,964	0.50	1.50
Tenant-2	2,027	0.50	1.00
Total	4,991	0.50	1.30
Annual KWh/SF	4,991	5.98 KWh/SF	5.98 KWh/SF

Notes
1 All receptacle loads are modeled identically between the Proposed and Baseline case and included in the simulations per Table G3.1#12
2 All receptacle equipment and other process equipment designed or anticipated for the building have been accounted for in the energy models.
3 The Proposed lighting power includes all lighting system components shown or provided for on the plans (including lamps and ballasts and task and furniture-mounted fixtures except where specifically exempted)

5.4. General HVAC Systems

Table-5.4.1: HVAC Systems Used in Proposed and Baseline Models

HVAC System 1,2,3,4,5,6,7,8			
Building Component	**Baseline Case**		**Proposed Case**
	Table G3.1.1A System Type	**Source for SRD**	**System Type**
Tenant-1	System 3 – PSZ-AC Packaged Single Zone Air Conditioner, Fossil fuel furnace, 80% Efficiency, Fan power: 0.3 W/CFM	Table G3.1.1-3,4; G3.5.6, ASHRAE Standard 90.1 2022	RTU+Economizer
Space Cooling	System 3 – PSZ-AC Packaged Single Zone Air Conditioner, Fossil fuel furnace, 80% Efficiency, Fan power: 0.3 W/CFM	Table G3.1.1-3,4; G3.5.3, ASHRAE Standard 90.1 2022	RTU+Economizer
Energy Recovery	No energy recovery in SRD	-	No energy recovery

Notes

1 The HVAC system type and all related parameters, such as equipment capacities and efficiencies, are modeled as designed (or installed) per Table G3.1#10(a&b)

2 Where no heating system exists or has been designed, the classification is assumed to be electric and the heating system is modeled identically to the Baseline case per Table G3.1#10(c)

3 Where no cooling system exists or has been designed, the cooling system is modeled identically to the Baseline case per Table G3.1#10(d)

4 All Proposed HVAC systems and related parameters, such as equipment capacities, efficiencies, airflows, fans, etc. have been modeled as designed

5 Each Proposed HVAC thermal zone has been modeled as a separate thermal block except as allowed by Table G3.1#7

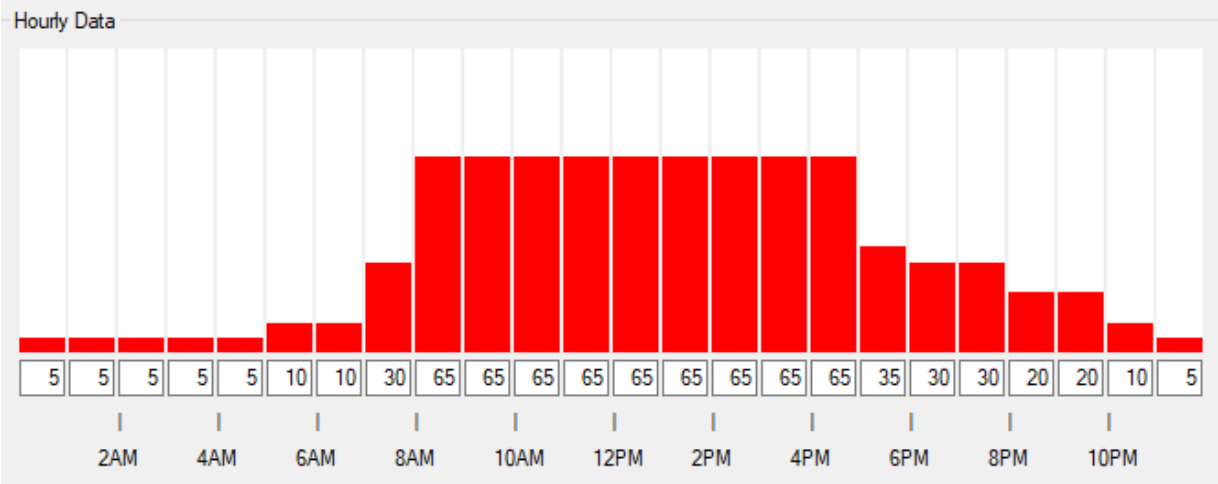
6 All Proposed HVAC systems serving conditioned spaces have been modeled with heating and cooling as required by Table G3.1#1(b), with heating and/or cooling added as necessary identically to the Baseline case per Table G3.1#10(c&d) except where System types (9) or (10) have been modeled in accordance with Addendum dn.

7 All Proposed HVAC systems and related parameters are modeled directly in the energy simulation program used

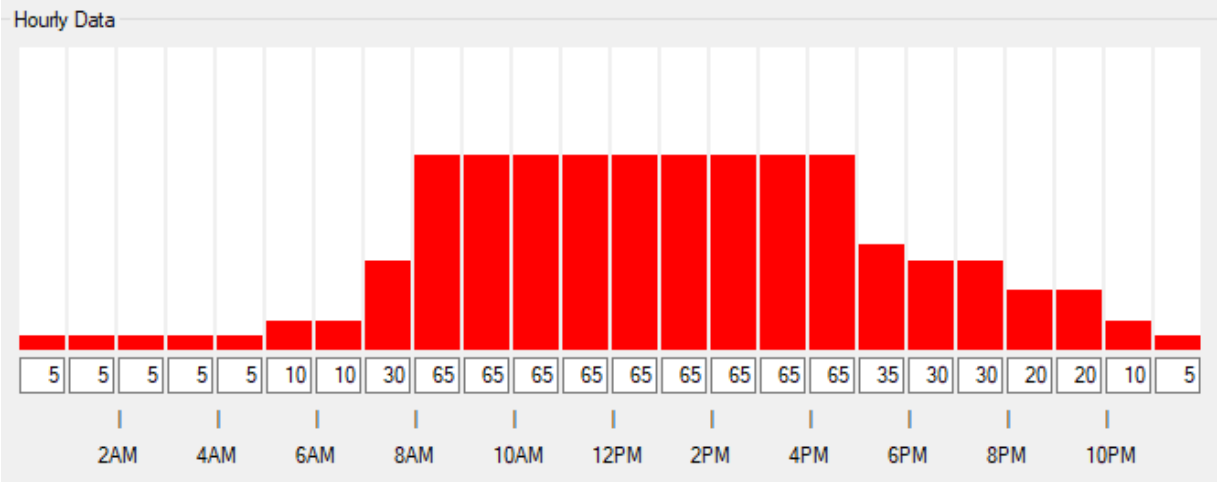
8 All Proposed fan part-load efficiency curves for variable volume fans have been modeled identically to the Baseline curves for variable volume fans

5.5. Schedules

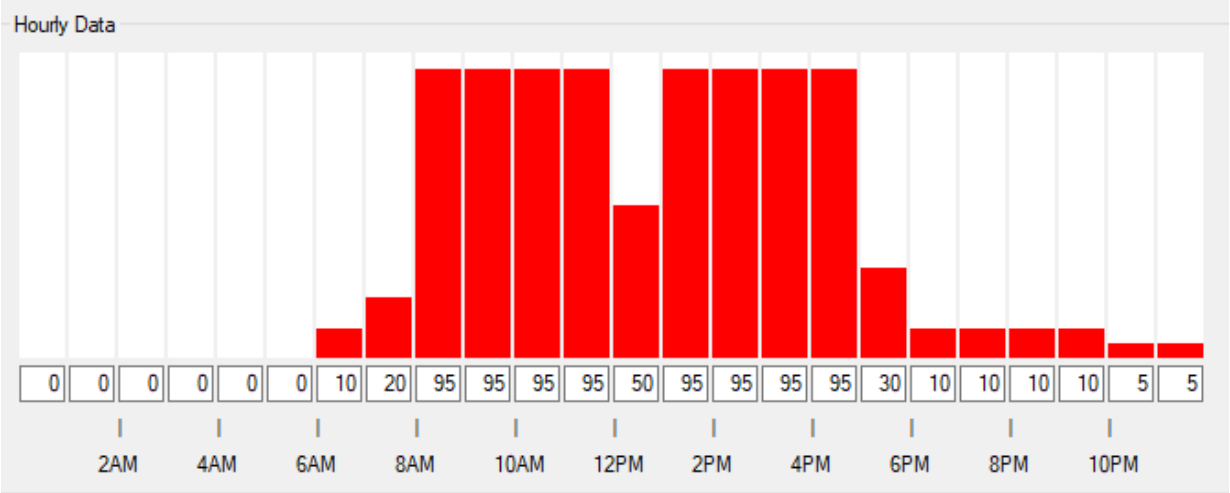
Graph-5.5.1: Retail Lighting Schedule (%)



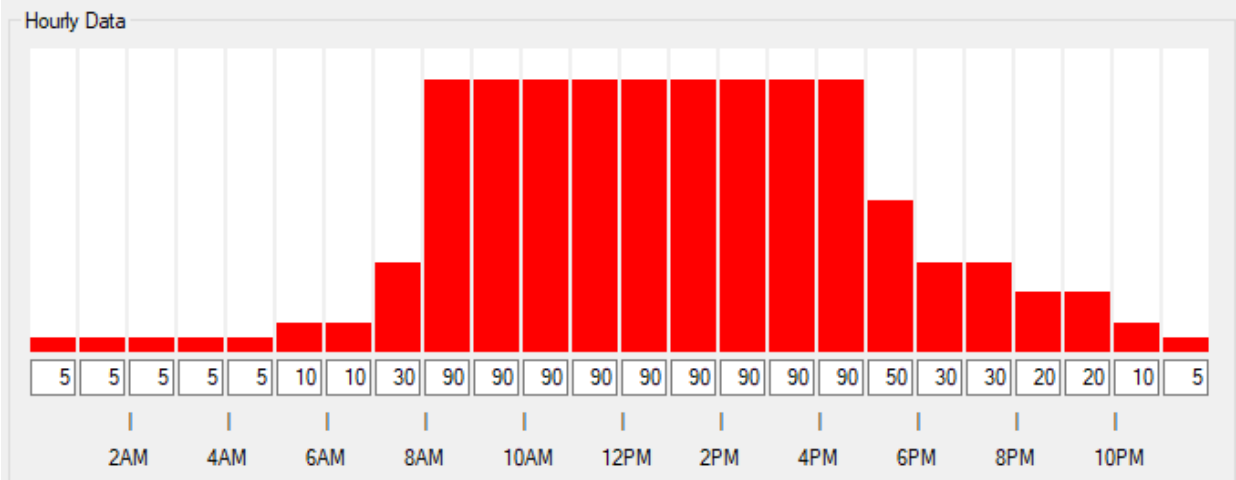
Graph-5.5.2: Retail Process Lighting Schedule (%)



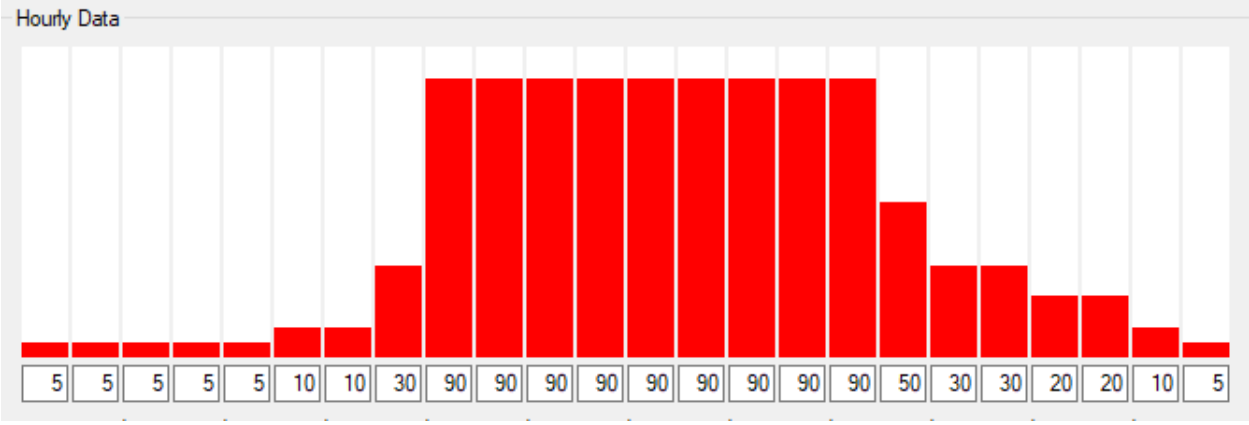
Graph-5.5.3: Retail tifamily Occupants Schedule (%)



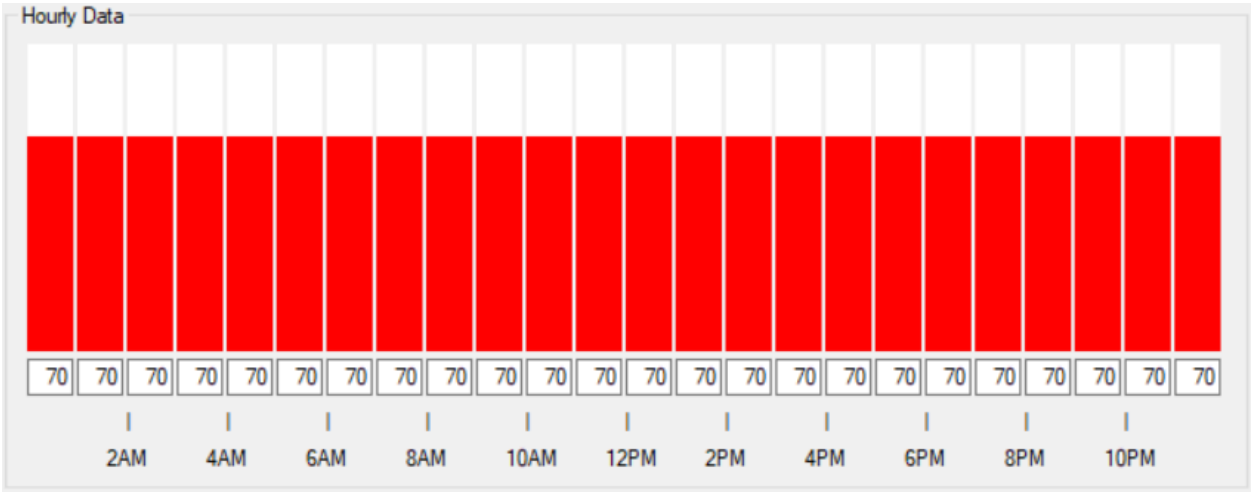
Graph-5.5.4: Retail Receptacle Schedule (%)



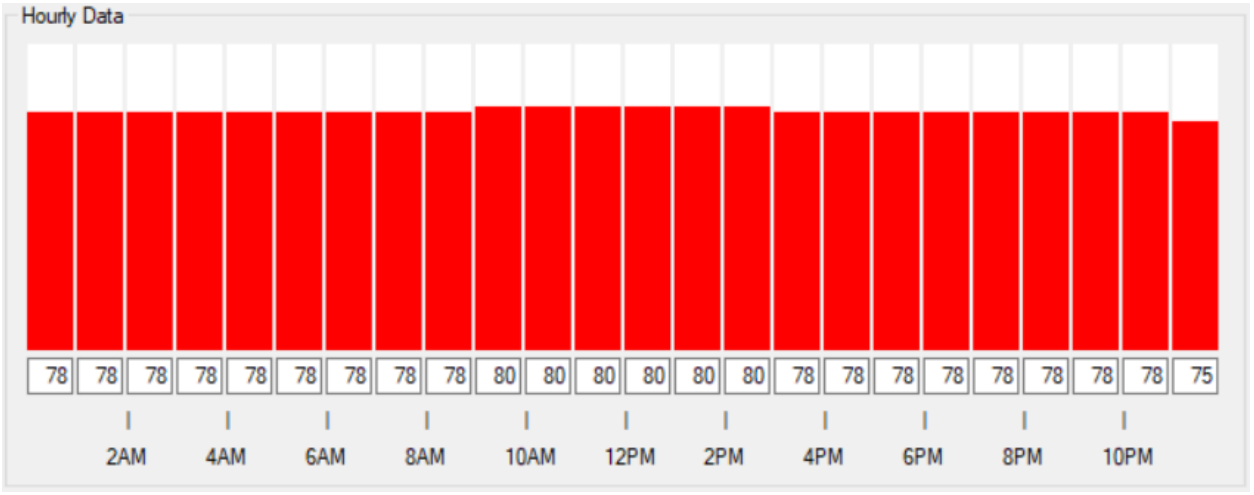
Graph-5.5.5: Retail Process Load Schedule (%)



Graph-5.5.6: Retail Heating Schedule (Temperature F)



Graph-5.5.7: Retail Cooling Schedule (Temperature F)



Appendix B. HVAC Equipment Specifications:

ROOFTOP HVAC UNIT SCHEDULE

EQUIP NO.	SERVICE	DISCHARGE	SUPPLY FAN			PROVIDE 100% OSA ECONOMIZER?	COOLING		HEATING			ELECTRICAL			WEIGHT, LBS	BASIS OF DESIGN (1)
			AIRFLOW, CFM	ESP, IN WG	MOTOR HP		CAPACITY, MBH	IEER/ EER	CAPACITY @ 47F MBH	CAPACITY @ 17F MBH	COP	VOLTAGE	MCA	MOCP		
RTU-1	TENANT 1	VERTICAL	3477	0.6	3.5	YES	101.6	14.1/11.0	100	61	3.4	208V/3P	129	150	1237	DAIKIN DFH1023W000043C
RTU-2	TENANT 1	VERTICAL	3477	0.6	3.5	YES	101.6	14.1/11.0	100	61	3.4	208V/3P	129	150	1237	DAIKIN DFH1023W000043C
RTU-3	TENANT 2	VERTICAL	2464	0.6	2.3	YES	69.78	17.0/11.5	62	33	3.4	208V/3P	70.7	80	708	DAIKIN DRH0723W000114C
RTU-4	TENANT 2	VERTICAL	2464	0.6	2.3	YES	69.78	17.0/11.5	62	33	3.4	208V/3P	70.7	80	708	DAIKIN DRH0723W000114C

NOTES:
(1) PROVIDE FACTORY INSTALLED TWO STAGE COOLING MODES
(2) PROVIDE FACTORY INSTALLED ELECTRO-MECHANICAL CONTROLS
(3) PROVIDE FACTORY INSTALLED RETURN AIR SMOKE DETECTOR
(4) PROVIDE FACTORY INSTALLED ULTRA LOW-LEAK DOWNFLOW ECONOMIZER W/ DRY BULB SENSOR
(5) PROVIDE FACTORY INSTALLED NON FUSED DISCONNECT SWITCH
(6) PROVIDE FACTORY INSTALLED HINGED PANELS
(7) PROVIDE FIELD INSTALLED 14" ROOF CURB
(8) PROVIDE FIELD INSTALLED OVERFLOW SWITCH
(9) PROVIDE FIELD INSTALLED LOW AMBIENT CONTROL
(10) PROVIDE FIELD INSTALLED FILTRATION-MERV13
(11) PROVIDE FIELD INSTALLED 4H/2C COMMERCIAL 7DAY PROGRAMMABLE WI-FI CAPABLE HUM/DEHUM THERMOSTAT
(12) REFRIGERANT TO BE R-410A.
(13) FOR PRICING, CALL KATE HOWE, 425-213-1178, OR EMAIL <KATEH@AIRREPS.COM>.

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name	Date
East Town Crossing Lot 1 Tenant-1	6/3/2025
System Name	**Floor Area**
RTU-1 2	2,964

ENGINEERING CHECKS

Number of Systems	1
Heating System	
Output per System	100,000
Total Output (Btuh)	100,000
Output (Btuh/sqft)	33.7
Cooling System	
Output per System	101,600
Total Output (Btuh)	101,600
Total Output (Tons)	8.5
Total Output (Btuh/sqft)	34.3
Total Output (sqft/Ton)	350.1
Air System	
CFM per System	3,477
Airflow (cfm)	3,477
Airflow (cfm/sqft)	1.17
Airflow (cfm/Ton)	410.7
Outside Air (%)	8.6%
Outside Air (cfm/sqft)	0.10
Note: values above given at ARI conditions	

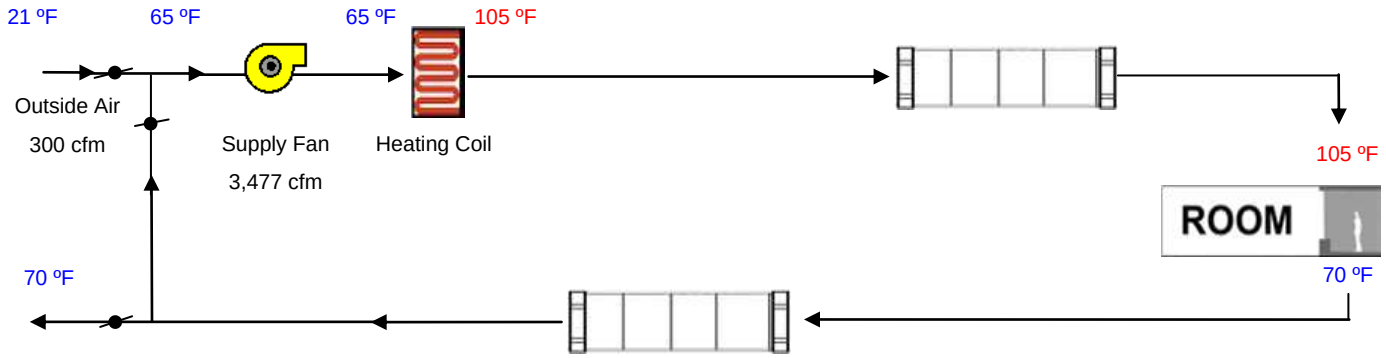
SYSTEM LOAD

	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	**Sensible**	**Latent**	**CFM**	**Sensible**
Total Room Loads	2,788	54,143	2,624	969	35,570
Return Vented Lighting		0			
Return Air Ducts		2,707			1,779
Return Fan		0			0
Ventilation	300	3,069	-28	300	15,580
Supply Fan		0			0
Supply Air Ducts		2,707			1,779
TOTAL SYSTEM LOAD		62,626	2,596		54,707

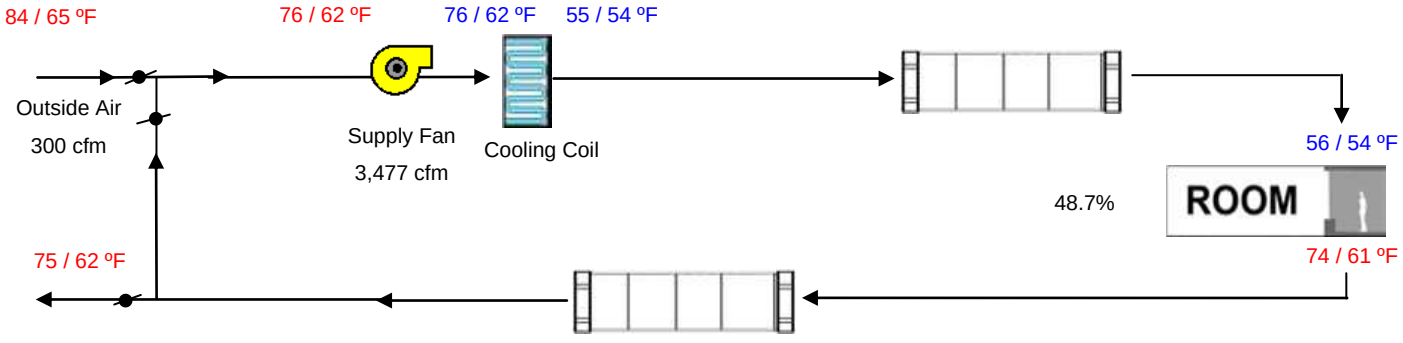
HVAC EQUIPMENT SELECTION

RTU-1 2	93,931	4,941		53,554
Total Adjusted System Output (Adjusted for Peak Design conditions)	93,931	4,941		53,554
TIME OF SYSTEM PEAK		Jul 4 PM		Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name	Date
East Town Crossing Lot 1 Tenant 2	6/3/2025
System Name	**Floor Area**
RTU-3 4	2,027

ENGINEERING CHECKS

Number of Systems	1
Heating System	
Output per System	62,000
Total Output (Btuh)	62,000
Output (Btuh/sqft)	30.6
Cooling System	
Output per System	69,780
Total Output (Btuh)	69,780
Total Output (Tons)	5.8
Total Output (Btuh/sqft)	34.4
Total Output (sqft/Ton)	348.6
Air System	
CFM per System	2,464
Airflow (cfm)	2,464
Airflow (cfm/sqft)	1.22
Airflow (cfm/Ton)	423.7
Outside Air (%)	12.2%
Outside Air (cfm/sqft)	0.15
Note: values above given at ARI conditions	

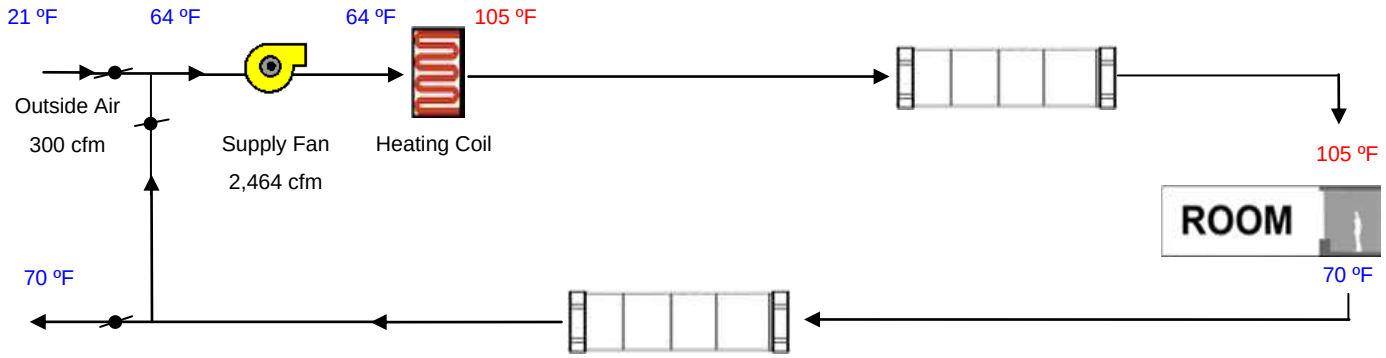
SYSTEM LOAD

	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	**Sensible**	**Latent**	**CFM**	**Sensible**
Total Room Loads	1,942	37,735	12,209	610	22,407
Return Vented Lighting		0			
Return Air Ducts		1,887			1,120
Return Fan		0			0
Ventilation	300	3,073	-1,405	300	15,597
Supply Fan		0			0
Supply Air Ducts		1,887			1,120
TOTAL SYSTEM LOAD		44,582	10,804		40,245

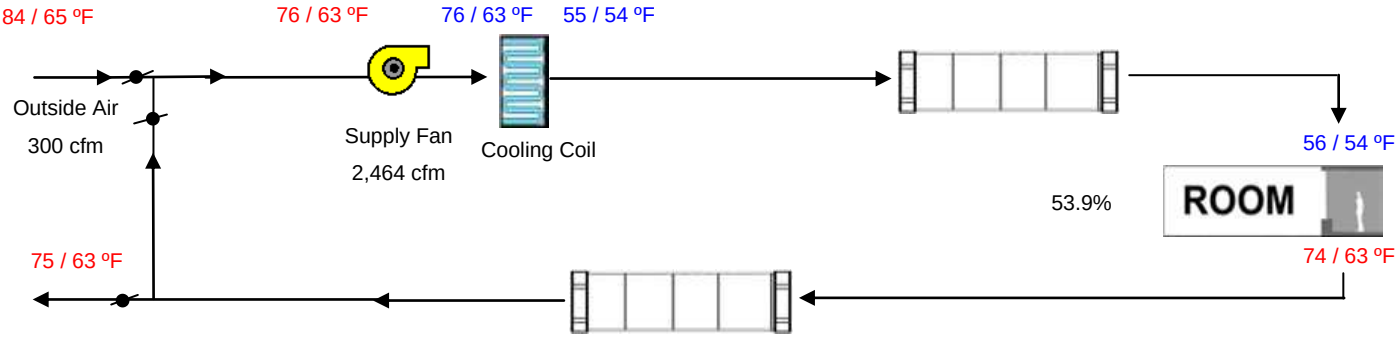
HVAC EQUIPMENT SELECTION

RTU-3 4	59,843	9,544		33,203
Total Adjusted System Output (Adjusted for Peak Design conditions)	59,843	9,544		33,203
TIME OF SYSTEM PEAK		Aug 2 PM		Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



DOE-2 UNITS TABLE

	ENGLISH	MULTIPLIED BY	GIVES	METRIC	MULTIPLIED BY	GIVES	ENGLISH
1			1.000000			1.000000	
2			1.000000			1.000000	
3	BTU		0.293000	WH		3.412969	BTU
4	BTU/HR		0.293000	WATT		3.412969	BTU/HR
5	BTU/LB-F		4183.830078	J/KG-K		0.000239	BTU/LB-F
6	BTU/HR-SQFT-F		5.674460	W/M2-K		0.176228	BTU/HR-SQFT-F
7	DEGREES		1.000000	DEGREES		1.000000	DEGREES
9	SQFT		0.092903	M2		10.763915	SQFT
10	CUFT		0.028317	M3		35.314724	CUFT
11	LB/HR		0.453592	KG/HR		2.204624	LB/HR
12	LB/CUFT		16.018459	KG/M3		0.062428	LB/CUFT
13	MPH		0.447040	M/S		2.236936	MPH
14	BTU/HR-F		0.527178	W/K		1.896893	BTU/HR-F
15	FT		0.304800	M		3.280840	FT
16	BTU/HR-FT-F		1.729600	W/M-K		0.578168	BTU/HR-FT-F
17	BTU/HR- SQFT		3.152480	WATT /M2		0.317211	BTU/HR- SQFT
18	IN		2.540000	CM		0.393701	IN
19	UNITS/IN		0.393700	UNITS/CM		2.540005	UNITS/IN
20	UNITS		1.000000	UNITS		1.000000	UNITS
21	LB		0.453592	KG		2.204624	LB
22	FRAC.OR MULT.		1.000000	FRAC.OR MULT.		1.000000	FRAC.OR MULT.
23	HOURS		1.000000	HRS		1.000000	HOURS
24	PERCENT-RH		1.000000	PERCENT-RH		1.000000	PERCENT-RH
25	CFM		1.699010	M3/H		0.588578	CFM
26	IN-WATER		25.400000	MM-WATER		0.039370	IN-WATER
27	LB/SQFT		4.882400	KG/M2		0.204817	LB/SQFT
28	KW		1.000000	KW		1.000000	KW
29	W/SQFT		10.763920	W/M2		0.092903	W/SQFT
30	THERMS		25.000000	THERMIES		0.040000	THERMS
31	KNOTS		0.514440	M/SEC		1.943861	KNOTS
32	HR-SQFT-F /BTU		0.176228	M2-K /W		5.674467	HR-SQFT-F /BTU
33	$DOLLARS		1.000000	$DOLLARS		1.000000	$DOLLARS
34	MBTU/HR		0.293000	MWATT		3.412969	MBTU/HR
35	YEARS		1.000000	YEARS		1.000000	YEARS
36	$/HR		1.000000	$/HR		1.000000	$/HR
37	HRS/YEARS		1.000000	HRS/YEARS		1.000000	HRS/YEARS
38	PERCENT		1.000000	PERCENT		1.000000	PERCENT
39	$/MONTH		1.000000	$/MONTH		1.000000	$/MONTH
40	GALLONS/MIN/TON		1.078000	LITERS/MIN/KW		0.927644	GALLONS/MIN/TON
41	BTU/LB		0.645683	WH/KG		1.548748	BTU/LB
42	LBS/SQIN-GAGE		68.947571	MBAR-GAGE		0.014504	LBS/SQIN-GAGE
43	$/UNIT		1.000000	$/UNIT		1.000000	$/UNIT
44	BTU/HR/PERSON		0.293000	W/PERSON		3.412969	BTU/HR/PERSON
45	LBS/LB		1.000000	KGS/KG		1.000000	LBS/LB
46	BTU/BTU		1.000000	KWH/KWH		1.000000	BTU/BTU
47	LBS/KW		0.453590	KG/KW		2.204634	LBS/KW
48	REV/MIN		1.000000	REV/MIN		1.000000	REV/MIN
49	KW/TON		1.000000	KW/TON		1.000000	KW/TON
50	MBTU		0.293000	MWH		3.412969	MBTU
51	GAL		3.785410	LITER		0.264172	GAL
52	GAL/MIN		3.785410	LITERS/MIN		0.264172	GAL/MIN
53	BTU/F		1897.800049	J/K		0.000527	BTU/F
54	UNITS/HR		1.000000	UNITS/HR		1.000000	UNITS/HR
55	$/UNIT-HR		1.000000	$/UNIT-HR		1.000000	$/UNIT-HR
56	KW/CFM		0.588500	KW/M3/HR		1.699235	KW/CFM
57	BTU/SQFT-F		20428.400391	J/M2-K		0.000049	BTU/SQFT-F
58	HR/HR		1.000000	HR/HR		1.000000	HR/HR
59	BTU/FT-F		6226.479980	J/M-K		0.000161	BTU/FT-F
60	R		0.555556	K		1.799999	R
61	INCH MER		33.863800	MBAR		0.029530	INCH MER
62	UNITS/GAL/MIN		0.264170	UNITS/LITER/MIN		3.785441	UNITS/GAL/MIN
63	(HR-SQFT-F/BTU)2		0.031056	(M2-K /W)2		32.199585	(HR-SQFT-F/BTU)2
64	KBTU/HR		0.293000	KW		3.412969	KBTU/HR
65	KBTU		0.293000	KWH		3.412969	KBTU
66	CFM		0.471900	L/S		2.119093	CFM
67	CFM/SQFT		18.288000	M3/H-M2		0.054681	CFM/SQFT
68	1/R		1.799900	1/K		0.555586	1/R
69	1/KNOT		1.943860	SEC/M		0.514440	1/KNOT
70	FOOTCANDLES		10.763910	LUX		0.092903	FOOTCANDLES
71	FOOTLAMBERT		3.426259	CANDELA/M2		0.291864	FOOTLAMBERT
72	LUMEN / WATT		1.000000	LUMEN / WATT		1.000000	LUMEN / WATT
73	KBTU/SQFT-YR		3.152480	KWH/M2-YR		0.317211	KBTU/SQFT-YR

DATA FOR SPACE 1-Tenant-1 Pizza

LOCATION OF ORIGIN IN BUILDING COORDINATES

XB (FT)	YB (FT)	ZB (FT)	SPACE AZIMUTH (DEG)	SPACE*FLOOR MULTIPLIER	HEIGHT (FT)	AREA (SQFT)	VOLUME (CUFT)
0.00	0.00	0.00	0.00	1.0	8.00	2964.00	23712.00

TOTAL NUMBER OF SURFACES	NUMBER OF EXTERIOR SURFACES	NUMBER OF INTERIOR SURFACES	NUMBER OF UNDERGROUND SURFACES	DAYLIGHTING	SUNSPACE
6	5	0	1	NO	NO

NUMBER OF SUBSURFACES

TOTAL	EXTERIOR WINDOWS	DOORS	INTERIOR WINDOWS
5	5	0	0

FLOOR WEIGHT (LB/SQFT)	CALCULATION TEMPERATURE (F)
91.3	72.0

INFILTRATION

SCHEDULE	INFILTRATION CALCULATION METHOD	FLOW RATE (CFM/SQFT)	AIR CHANGES PER HOUR	HEIGHT TO NEUTRAL ZONE (FT)
SCHED-185	AIR-CHANGE	0.00	0.25	0.0

PEOPLE

SCHEDULE	NUMBER	AREA PER PERSON (SQFT)	PEOPLE ACTIVITY (BTU/HR)	PEOPLE SENSIBLE (BTU/HR)	PEOPLE LATENT (BTU/HR)
SCHED-185	10.0	296.4	0.0	275.0	275.0

LIGHTING

SCHEDULE	LIGHTING TYPE	LOAD (WATTS/ SQFT)	LOAD (KW)	FRACTION OF LOAD TO SPACE
SCHED-186	REC-FLUOR-NV	0.45	0.00	1.00

TASK LIGHTING

SCHEDULE	LOAD (WATTS/ SQFT)	LOAD (KW)
SCHED-186	0.00	0.

ELECTRICAL EQUIPMENT

SCHEDULE	ELEC LOAD (WATTS/ SQFT)	ELEC LOAD (KW)	FRACTION OF LOAD TO SPACE SENSIBLE	LATENT
SCHED-187	1.50	0.00	1.00	0.00

EXTERIOR SURFACES (U-VALUE EXCLUDES OUTSIDE AIR FILM)

SURFACE	MULTIPLIER	AREA (SQFT)	WIDTH (FT)	HEIGHT (FT)	CONSTRUCTION	U-VALUE (BTU/HR-SQFT-F)	SURFACE TYPE
	1.0	718.00	89.75	8.00	Wall-0	0.097	DELAYED
	1.0	219.04	27.38	8.00	Wall-0	0.097	DELAYED
	1.0	696.00	87.00	8.00	Wall-0	0.097	DELAYED
	1.0	712.00	89.00	8.00	Wall-0	0.097	DELAYED
	1.0	2963.71	54.44	54.44	Roof-2	0.032	DELAYED

SURFACE	AZIMUTH (DEG)	TILT (DEG)	LOCATION OF ORIGIN IN BUILDING COORDINATES XB (FT)	YB (FT)	ZB (FT)	LOCATION OF ORIGIN IN SPACE COORDINATES X (FT)	Y (FT)	Z (FT)
	0.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	90.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	180.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	270.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00

UNDERGROUND SURFACES (U-VALUE INCLUDES INSIDE AIR FILM)

SURFACE	MULTIPLIER	AREA (SQFT)	CONSTRUCTION	U-VALUE (BTU/HR-SQFT-F)
	1.0	2964.00	Slab-1	0.74

EXTERIOR WINDOWS (U-VALUE INCLUDES OUTSIDE AIR FILM)

WINDOW	MULTIPLIER	GLASS AREA (SQFT)	GLASS SHADING COEFF	NUMBER OF PANES	GLASS TYPE CODE	SET-BACK (FT)	GLASS WIDTH (FT)	GLASS HEIGHT (FT)	CENTER-OF-GLASS U-VALUE (BTU/HR-SQFT-F)	GLASS VISIBLE TRANS
	1.0	309.02	0.44	1	1	0.00	46.33	6.67	0.300	0.900
	1.0	116.99	0.44	1	1	0.00	17.54	6.67	0.300	0.900
	1.0	50.03	0.44	1	1	0.00	7.50	6.67	0.400	0.900
	1.0	194.03	0.44	1	1	0.00	29.09	6.67	0.300	0.900
	1.0	50.03	0.44	1	1	0.00	7.50	6.67	0.400	0.900

WINDOW	LOCATED IN SURFACE	LOCATION OF ORIGIN IN BUILDING COORDINATES XB (FT)	YB (FT)	ZB (FT)	LOCATION OF ORIGIN IN SURFACE COORDINATES X (FT)	Y (FT)
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00

REPORT- LV-D DETAILS OF EXTERIOR SURFACES IN THE PROJECT WEATHER FILE- SEATTLE SEATTLE-T WA

NUMBER OF EXTERIOR SURFACES 5 RECTANGULAR 5 OTHER 0
(U-VALUE INCLUDES OUTSIDE AIR FILM; WINDOW INCLUDES FRAME, IF DEFINED)

SURFACE	SPACE	- - - W I N D O W S - - - U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	- - - - W A L L - - - - U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	-W A L L + W I N D O W S- U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	AZIMUTH
	1-Tenant-1 Pizza	0.300	309.02	0.093	408.98	0.182	718.00	NORTH
	1-Tenant-1 Pizza	0.000	0.00	0.093	219.04	0.093	219.04	EAST
	1-Tenant-1 Pizza	0.330	167.02	0.093	528.98	0.150	696.00	SOUTH
	1-Tenant-1 Pizza	0.320	244.06	0.093	467.94	0.171	712.00	WEST
	1-Tenant-1 Pizza	0.000	0.00	0.032	2963.71	0.032	2963.71	ROOF
	1-Tenant-1 Pizza	0.000	0.00	0.735	2964.00	0.735	2964.00	UNDERGRND

	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	0.300	0.093	0.182	309.02	408.98	718.00
EAST	0.000	0.093	0.093	0.00	219.04	219.04
SOUTH	0.330	0.093	0.150	167.02	528.98	696.00
WEST	0.320	0.093	0.171	244.06	467.94	712.00
ROOF	0.000	0.032	0.032	0.00	2963.71	2963.71
ALL WALLS	0.314	0.093	0.161	720.09	1624.95	2345.04
WALLS+ROOFS	0.314	0.054	0.089	720.09	4588.66	5308.75
UNDERGRND	0.000	0.735	0.735	0.00	2964.00	2964.00
BUILDING	0.314	0.321	0.321	720.09	7552.66	8272.75

REPORT- LV-I DETAILS OF CONSTRUCTIONS OCCURRING IN THE PROJECT WEATHER FILE- SEATTLE SEATTLE-T WA

NUMBER OF CONSTRUCTIONS 3 DELAYED 3 QUICK 0

CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)	SURFACE ABSORPTANCE	SURFACE ROUGHNESS INDEX	SURFACE TYPE	NUMBER OF RESPONSE FACTORS
Wall-0	0.097	0.70	1	DELAYED	9
Slab-1	0.735	0.70	3	DELAYED	5
Roof-2	0.032	0.90	3	DELAYED	11

Proposed Building (ASHRAE 90.1 Appendix East Town Crossing Lot 1 Tenant-1 DOE-2.1E-124 Tue Jun 3 14:29:03 2025LDL RUN 1

REPORT- LS-A SPACE PEAK LOADS SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

SPACE NAME	MULTIPLIER SPACE	MULTIPLIER FLOOR	COOLING LOAD (KBTU/HR)	TIME OF PEAK	DRY-BULB	WET-BULB	HEATING LOAD (KBTU/HR)	TIME OF PEAK	DRY-BULB	WET-BULB
1-Tenant-1 Pizza	1.	1.	42.084	AUG 8 6 PM	86.F	64.F	-20.243	FEB 19 6 AM	22.F	21.F
SUM			42.084				-20.243			
BUILDING PEAK			42.084	AUG 8 6 PM	86.F	64.F	-20.243	FEB 19 6 AM	22.F	21.F

SPACE 1-Tenant-1 Pizza
SPACE TEMPERATURE USED FOR THE LOADS CALCULATION IS 72 F / 22 C

MULTIPLIER 1.0 FLOOR MULTIPLIER 1.0

FLOOR AREA	*2964*	*SQFT*	*275*	*M2*
VOLUME	*23712*	*CUFT*	*672*	*M3*

	COOLING LOAD		HEATING LOAD	
TIME	*AUG 8 6PM*		*FEB 19 6AM*	
DRY-BULB TEMP	*86 F*	*30 C*	*22 F*	*-6 C*
WET-BULB TEMP	*64 F*	*18 C*	*21 F*	*-6 C*
TOT HORIZONTAL SOLAR RAD	*141 BTU/H.SQFT*	*444 W/M2*	*0 BTU/H.SQFT*	*0 W/M2*
WINDSPEED AT SPACE	*8.3 KTS*	*4.3 M/S*	*5.8 KTS*	*3.0 M/S*
CLOUD AMOUNT 0(CLEAR)-10	*0*		*0*	

	SENSIBLE (KBTU/H)	SENSIBLE (KW)	LATENT (KBTU/H)	LATENT (KW)	SENSIBLE (KBTU/H)	SENSIBLE (KW)
WALL CONDUCTION	*4.388*	*1.286*	*0.000*	*0.000*	*-7.368*	*-2.159*
ROOF CONDUCTION	*5.764*	*1.689*	*0.000*	*0.000*	*-4.926*	*-1.443*
WINDOW GLASS+FRM COND	*1.737*	*0.509*	*0.000*	*0.000*	*-10.463*	*-3.066*
WINDOW GLASS SOLAR	*15.686*	*4.596*	*0.000*	*0.000*	*1.537*	*0.450*
DOOR CONDUCTION	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*
INTERNAL SURFACE COND	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*
UNDERGROUND SURF COND	*-1.711*	*-0.501*	*0.000*	*0.000*	*-3.491*	*-1.023*
OCCUPANTS TO SPACE	*0.114*	*0.033*	*0.000*	*0.000*	*2.076*	*0.608*
LIGHT TO SPACE	*3.442*	*1.008*	*0.000*	*0.000*	*1.446*	*0.424*
EQUIPMENT TO SPACE	*12.664*	*3.711*	*0.000*	*0.000*	*4.340*	*1.272*
PROCESS TO SPACE	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*
INFILTRATION	*0.000*	*0.000*	*0.000*	*0.000*	*-3.394*	*-0.994*
TOTAL	*42.084*	*12.331*	*0.000*	*0.000*	*-20.243*	*-5.931*
TOTAL / AREA	*0.014*	*0.045*	*0.000*	*0.000*	*-0.007*	*-0.022*
TOTAL LOAD	*42.084 KBTU/H*	*12.331 KW*			*-20.243 KBTU/H*	*-5.931 KW*
TOTAL LOAD / AREA	*14.20 BTU/H.SQFT*	*44.779 W/M2*			*6.830 BTU/H.SQFT*	*21.539 W/M2*

NOTE 1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR LOADS
2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION IN CONSIDERATION
3)THE ABOVE LOADS ARE CALCULATED ASSUMING A CONSTANT INDOOR SPACE TEMPERATURE

*** BUILDING ***

FLOOR AREA	2964	SQFT	275	M2
VOLUME	23712	CUFT	672	M3

	COOLING LOAD		HEATING LOAD	
TIME	AUG 8 6PM		FEB 19 6AM	
DRY-BULB TEMP	86 F	30 C	22 F	-6 C
WET-BULB TEMP	64 F	18 C	21 F	-6 C
TOT HORIZONTAL SOLAR RAD	141 BTU/H.SQFT	444 W/M2	0 BTU/H.SQFT	0 W/M2
WINDSPEED AT SPACE	8.3 KTS	4.3 M/S	5.8 KTS	3.0 M/S
CLOUD AMOUNT 0(CLEAR)-10	0		0	

	SENSIBLE		LATENT		SENSIBLE	
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)
WALL CONDUCTION	4.388	1.286	0.000	0.000	-7.368	-2.159
ROOF CONDUCTION	5.764	1.689	0.000	0.000	-4.926	-1.443
WINDOW GLASS+FRM COND	1.737	0.509	0.000	0.000	-10.463	-3.066
WINDOW GLASS SOLAR	15.686	4.596	0.000	0.000	1.537	0.450
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURF COND	-1.711	-0.501	0.000	0.000	-3.491	-1.023
OCCUPANTS TO SPACE	0.114	0.033	0.000	0.000	2.076	0.608
LIGHT TO SPACE	3.442	1.008	0.000	0.000	1.446	0.424
EQUIPMENT TO SPACE	12.664	3.711	0.000	0.000	4.340	1.272
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	0.000	0.000	0.000	0.000	-3.394	-0.994
TOTAL	42.084	12.331	0.000	0.000	-20.243	-5.931
TOTAL / AREA	0.014	0.045	0.000	0.000	-0.007	-0.022
TOTAL LOAD	42.084 KBTU/H	12.331 KW			-20.243 KBTU/H	-5.931 KW
TOTAL LOAD / AREA	14.20 BTU/H.SQFT	44.779 W/M2			6.830 BTU/H.SQFT	21.539 W/M2

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*
* NOTE 1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR
* ----   LOADS
*   2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION
*   IN CONSIDERATION
*   3)THE ABOVE LOADS ARE CALCULATED ASSUMING A
*   CONSTANT INDOOR SPACE TEMPERATURE
*
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	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	1.06664	20	15	45.F	41.F	14.364	-3.776	15	5	27.F	25.F	-17.325	2454.	5.135
FEB	2.19553	27	16	67.F	54.F	27.625	-2.815	19	6	22.F	21.F	-20.243	2205.	5.135
MAR	4.20072	14	17	62.F	52.F	30.092	-2.015	24	6	35.F	29.F	-13.737	2449.	5.135
APR	6.48482	26	17	76.F	57.F	35.443	-1.049	19	5	35.F	34.F	-11.134	2391.	5.135
MAY	8.99027	15	17	76.F	56.F	39.249	-0.413	18	5	42.F	42.F	-10.193	2449.	5.135
JUN	10.39842	28	17	80.F	62.F	38.666	-0.064	14	5	50.F	48.F	-3.614	2371.	5.135
JUL	12.95608	31	17	83.F	66.F	40.333	0.000	2	4	54.F	48.F	-0.213	2454.	5.135
AUG	12.45526	8	17	86.F	64.F	42.084	-0.002	18	5	53.F	52.F	-0.659	2449.	5.135
SEP	9.20955	11	17	72.F	60.F	38.071	-0.082	27	4	45.F	45.F	-4.799	2371.	5.135
OCT	5.50579	4	17	69.F	52.F	31.661	-0.800	28	4	46.F	44.F	-8.527	2454.	5.135
NOV	2.41070	4	15	70.F	61.F	28.940	-2.094	22	6	38.F	36.F	-12.268	2327.	5.135
DEC	1.36103	3	15	54.F	43.F	16.623	-3.319	26	4	30.F	30.F	-15.809	2454.	5.135
TOTAL	77.235						-16.431						28827.	
MAX						42.084						-20.243		5.135

REPORT- LS-E SPACE MONTHLY LOAD COMPONENTS IN MBTU FOR 1-Tenant-1 Pizza WEATHER FILE- SEATTLE SEATTLE-T WA

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
	HEATNG	-2.406	-1.605	0.000	-1.545	-0.243	-3.397	0.794	0.362	0.973	3.292	0.000	-3.776
JAN	SEN CL	-1.000	-0.609	0.000	-0.860	0.000	-1.701	1.095	0.043	0.867	3.231	0.000	1.067
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-1.744	-1.162	0.000	-1.253	-0.215	-2.497	0.874	0.316	0.669	2.196	0.000	-2.815
FEB	SEN CL	-0.939	-0.506	0.000	-1.092	0.000	-1.819	1.836	0.055	0.988	3.673	0.000	2.196
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-1.375	-0.906	0.000	-1.166	-0.233	-2.024	0.966	0.328	0.574	1.821	0.000	-2.015
MAR	SEN CL	-0.937	-0.287	0.000	-1.447	-0.003	-2.075	2.904	0.081	1.266	4.698	0.000	4.201
	LAT CL					0.000			0.008		0.000	0.000	0.008
	HEATNG	-0.887	-0.563	0.000	-0.790	-0.167	-1.329	0.856	0.256	0.385	1.190	0.000	-1.049
APR	SEN CL	-0.724	0.085	0.000	-1.651	-0.016	-1.985	4.059	0.129	1.412	5.174	0.000	6.485
	LAT CL					0.001			0.063		0.000	0.000	0.064
	HEATNG	-0.498	-0.307	0.000	-0.424	-0.116	-0.751	0.580	0.196	0.224	0.683	0.000	-0.413
MAY	SEN CL	-0.612	0.419	0.000	-1.733	-0.042	-2.069	5.361	0.214	1.616	5.837	0.000	8.990
	LAT CL					0.001			0.157		0.000	0.000	0.158
	HEATNG	-0.136	-0.086	0.000	-0.113	-0.046	-0.210	0.180	0.073	0.070	0.204	0.000	-0.064
JUN	SEN CL	-0.433	0.615	0.000	-1.620	-0.093	-1.853	5.645	0.321	1.712	6.106	0.000	10.398
	LAT CL					0.003			0.297		0.000	0.000	0.300
	HEATNG	-0.002	-0.001	0.000	-0.002	-0.002	-0.004	0.004	0.002	0.001	0.004	0.000	0.000
JUL	SEN CL	-0.065	0.891	0.000	-1.473	-0.093	-1.558	6.483	0.402	1.842	6.527	0.000	12.956
	LAT CL					0.012			0.402		0.000	0.000	0.414
	HEATNG	-0.009	-0.007	0.000	-0.007	-0.003	-0.015	0.010	0.008	0.005	0.016	0.000	-0.002
AUG	SEN CL	0.056	0.680	0.000	-1.267	-0.090	-1.248	5.578	0.401	1.838	6.509	0.000	12.455
	LAT CL					0.030			0.399		0.000	0.000	0.429
	HEATNG	-0.169	-0.123	0.000	-0.101	-0.017	-0.248	0.138	0.075	0.091	0.272	0.000	-0.082
SEP	SEN CL	-0.404	0.105	0.000	-1.114	-0.048	-1.943	4.576	0.319	1.687	6.032	0.000	9.210
	LAT CL					0.007			0.297		0.000	0.000	0.304
	HEATNG	-0.847	-0.583	0.000	-0.469	-0.156	-1.245	0.577	0.281	0.398	1.243	0.000	-0.800
OCT	SEN CL	-0.902	-0.428	0.000	-0.949	-0.017	-2.014	2.963	0.123	1.444	5.286	0.000	5.506
	LAT CL					0.001			0.052		0.000	0.000	0.053
	HEATNG	-1.481	-0.999	0.000	-0.814	-0.223	-2.097	0.525	0.333	0.628	2.034	0.000	-2.094
NOV	SEN CL	-1.049	-0.618	0.000	-0.856	-0.005	-1.880	1.446	0.081	1.123	4.168	0.000	2.411
	LAT CL					0.000			0.017		0.000	0.000	0.017
	HEATNG	-2.119	-1.459	0.000	-1.216	-0.199	-2.949	0.620	0.351	0.844	2.808	0.000	-3.319
DEC	SEN CL	-1.102	-0.720	0.000	-0.864	0.000	-1.892	1.174	0.053	0.997	3.716	0.000	1.361
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-11.676	-7.800	0.000	-7.899	-1.620	-16.766	6.125	2.581	4.862	15.763	0.000	-16.431
TOT	SEN CL	-8.112	-0.374	0.000	-14.925	-0.407	-22.039	43.120	2.224	16.792	60.957	0.000	77.235
	LAT CL					0.055			1.691		0.000	0.000	1.747

REPORT- LS-F BUILDING MONTHLY LOAD COMPONENTS IN MBTU WEATHER FILE- SEATTLE SEATTLE-T WA

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
	HEATNG	-2.406	-1.605	0.000	-1.545	-0.243	-3.397	0.794	0.362	0.973	3.292	0.000	-3.776
JAN	SEN CL	-1.000	-0.609	0.000	-0.860	0.000	-1.701	1.095	0.043	0.867	3.231	0.000	1.067
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-1.744	-1.162	0.000	-1.253	-0.215	-2.497	0.874	0.316	0.669	2.196	0.000	-2.815
FEB	SEN CL	-0.939	-0.506	0.000	-1.092	0.000	-1.819	1.836	0.055	0.988	3.673	0.000	2.196
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-1.375	-0.906	0.000	-1.166	-0.233	-2.024	0.966	0.328	0.574	1.821	0.000	-2.015
MAR	SEN CL	-0.937	-0.287	0.000	-1.447	-0.003	-2.075	2.904	0.081	1.266	4.698	0.000	4.201
	LAT CL					0.000			0.008		0.000	0.000	0.008
	HEATNG	-0.887	-0.563	0.000	-0.790	-0.167	-1.329	0.856	0.256	0.385	1.190	0.000	-1.049
APR	SEN CL	-0.724	0.085	0.000	-1.651	-0.016	-1.985	4.059	0.129	1.412	5.174	0.000	6.485
	LAT CL					0.001			0.063		0.000	0.000	0.064
	HEATNG	-0.498	-0.307	0.000	-0.424	-0.116	-0.751	0.580	0.196	0.224	0.683	0.000	-0.413
MAY	SEN CL	-0.612	0.419	0.000	-1.733	-0.042	-2.069	5.361	0.214	1.616	5.837	0.000	8.990
	LAT CL					0.001			0.157		0.000	0.000	0.158
	HEATNG	-0.136	-0.086	0.000	-0.113	-0.046	-0.210	0.180	0.073	0.070	0.204	0.000	-0.064
JUN	SEN CL	-0.433	0.615	0.000	-1.620	-0.093	-1.853	5.645	0.321	1.712	6.106	0.000	10.398
	LAT CL					0.003			0.297		0.000	0.000	0.300
	HEATNG	-0.002	-0.001	0.000	-0.002	-0.002	-0.004	0.004	0.002	0.001	0.004	0.000	0.000
JUL	SEN CL	-0.065	0.891	0.000	-1.473	-0.093	-1.558	6.483	0.402	1.842	6.527	0.000	12.956
	LAT CL					0.012			0.402		0.000	0.000	0.414
	HEATNG	-0.009	-0.007	0.000	-0.007	-0.003	-0.015	0.010	0.008	0.005	0.016	0.000	-0.002
AUG	SEN CL	0.056	0.680	0.000	-1.267	-0.090	-1.248	5.578	0.401	1.838	6.509	0.000	12.455
	LAT CL					0.030			0.399		0.000	0.000	0.429
	HEATNG	-0.169	-0.123	0.000	-0.101	-0.017	-0.248	0.138	0.075	0.091	0.272	0.000	-0.082
SEP	SEN CL	-0.404	0.105	0.000	-1.114	-0.048	-1.943	4.576	0.319	1.687	6.032	0.000	9.210
	LAT CL					0.007			0.297		0.000	0.000	0.304
	HEATNG	-0.847	-0.583	0.000	-0.469	-0.156	-1.245	0.577	0.281	0.398	1.243	0.000	-0.800
OCT	SEN CL	-0.902	-0.428	0.000	-0.949	-0.017	-2.014	2.963	0.123	1.444	5.286	0.000	5.506
	LAT CL					0.001			0.052		0.000	0.000	0.053
	HEATNG	-1.481	-0.999	0.000	-0.814	-0.223	-2.097	0.525	0.333	0.628	2.034	0.000	-2.094
NOV	SEN CL	-1.049	-0.618	0.000	-0.856	-0.005	-1.880	1.446	0.081	1.123	4.168	0.000	2.411
	LAT CL					0.000			0.017		0.000	0.000	0.017
	HEATNG	-2.119	-1.459	0.000	-1.216	-0.199	-2.949	0.620	0.351	0.844	2.808	0.000	-3.319
DEC	SEN CL	-1.102	-0.720	0.000	-0.864	0.000	-1.892	1.174	0.053	0.997	3.716	0.000	1.361
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-11.676	-7.800	0.000	-7.899	-1.620	-16.766	6.125	2.581	4.862	15.763	0.000	-16.431
TOT	SEN CL	-8.112	-0.374	0.000	-14.925	-0.407	-22.039	43.120	2.224	16.792	60.957	0.000	77.235
	LAT CL					0.055			1.691		0.000	0.000	1.747

SPACE 1-Tenant-1 Pizza

MONTH	- - - - L I G H T I N G - - - - TASK LIGHTING (KWH)	TOTAL LIGHTING (KWH)	E Q U I P M E N T - - - - - - - - - - GENERAL EQUIPMENT (KWH)	P R O C E S S - - - - - - - - - PROCESS ELECTRIC (KWH)	PROCESS GAS (MBTU)	PROCESS HOT WATER (MBTU)
JAN	0.00	540.19	1913.77	0.00	0.0000	0.0000
FEB	0.00	485.37	1719.71	0.00	0.0000	0.0000
MAR	0.00	539.12	1909.77	0.00	0.0000	0.0000
APR	0.00	526.32	1864.20	0.00	0.0000	0.0000
MAY	0.00	539.12	1909.77	0.00	0.0000	0.0000
JUN	0.00	521.92	1849.09	0.00	0.0000	0.0000
JUL	0.00	540.19	1913.77	0.00	0.0000	0.0000
AUG	0.00	539.12	1909.77	0.00	0.0000	0.0000
SEP	0.00	521.92	1849.09	0.00	0.0000	0.0000
OCT	0.00	540.19	1913.77	0.00	0.0000	0.0000
NOV	0.00	512.05	1814.85	0.00	0.0000	0.0000
DEC	0.00	540.19	1913.77	0.00	0.0000	0.0000
ANNUAL	0.00	6345.63	22480.98	0.00	0.0000	0.0000

BUILDING

	- - - - L I G H T I N G - - - -		E Q U I P M E N T - - - - - - - - - -	P R O C E S S - - - - - - - - -		
MONTH	TASK LIGHTING (KWH)	TOTAL LIGHTING (KWH)	GENERAL EQUIPMENT (KWH)	PROCESS ELECTRIC (KWH)	PROCESS GAS (MBTU)	PROCESS HOT WATER (MBTU)
JAN	0.00	540.19	1913.77	0.00	0.0000	0.0000
FEB	0.00	485.37	1719.71	0.00	0.0000	0.0000
MAR	0.00	539.12	1909.77	0.00	0.0000	0.0000
APR	0.00	526.32	1864.20	0.00	0.0000	0.0000
MAY	0.00	539.12	1909.77	0.00	0.0000	0.0000
JUN	0.00	521.92	1849.09	0.00	0.0000	0.0000
JUL	0.00	540.19	1913.77	0.00	0.0000	0.0000
AUG	0.00	539.12	1909.77	0.00	0.0000	0.0000
SEP	0.00	521.92	1849.09	0.00	0.0000	0.0000
OCT	0.00	540.19	1913.77	0.00	0.0000	0.0000
NOV	0.00	512.05	1814.85	0.00	0.0000	0.0000
DEC	0.00	540.19	1913.77	0.00	0.0000	0.0000
ANNUAL	0.00	6345.63	22480.98	0.00	0.0000	0.0000

REPORT- LS-L MANAGEMENT AND SOLAR SUMMARY FOR SPACE 1-Tenant-1 Pizza WEATHER FILE- SEATTLE SEATTLE-T WA

DATA FOR SPACE 1-Tenant-1 Pizza

MONTH	NUMBER OF HOURS MANAGEMENT WOULD BE EMPLOYED	AVERAGE DAILY SOLAR RADIATION INTO SPACE (BTU/DAY)	MAXIMUM HOURLY SOLAR RADIATION INTO SPACE (BTU/HR)
JAN	45.	61143.848	21922.545
FEB	71.	97417.578	25421.996
MAR	80.	124565.859	27632.242
APR	103.	164224.953	28026.729
MAY	98.	193226.438	30379.121
JUN	73.	193504.484	26015.016
JUL	146.	209765.875	27613.449
AUG	149.	179503.141	27277.672
SEP	131.	156952.594	27656.373
OCT	102.	112950.906	27209.816
NOV	40.	65532.168	23353.205
DEC	53.	57951.758	21704.025
ANNUAL	1091.	134922.000	30379.121

REPORT- SV-A SYSTEM DESIGN PARAMETERS SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
SYSTEM-1	PSZ	1.000	2964.0	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)	HEAT PUMP SUPP-HEAT (KBTU/HR)
3477.	0.862	0.8	0.	0.000	0.0	0.043	105.819	0.853	-95.781	0.26	0.26	-136.692

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
1-Tenant-1 Pizza	3477.	0.	0.000	1.000	150.	0.00	0.00	70.68	0.00	-131.79	1.0

REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000				0.000	0.000				0.000	4303.	9.754
FEB	0.00000				0.000	0.000				0.000	3619.	9.684
MAR	0.00000				0.000	0.000				0.000	3576.	8.679
APR	0.00000				0.000	0.000				0.000	3499.	9.248
MAY	0.00000				0.000	0.000				0.000	3619.	9.554
JUN	0.00000				0.000	0.000				0.000	3572.	10.046
JUL	0.00000				0.000	0.000				0.000	3894.	10.456
AUG	0.00000				0.000	0.000				0.000	3990.	10.345
SEP	0.00000				0.000	0.000				0.000	3541.	9.547
OCT	0.00000				0.000	0.000				0.000	3544.	7.683
NOV	0.00000				0.000	0.000				0.000	3581.	9.142
DEC	0.00000				0.000	0.000				0.000	4174.	9.946
TOTAL	0.000					0.000					44914.	
MAX					0.000					0.000		10.456

MAXIMUM DAILY INTEGRATED COOLING LOAD (DES DAY) 0.000 (KBTU)
MAXIMUM DAILY INTEGRATED COOLING LOAD (WTH FILE) 0.000 (KBTU)

REPORT- SS-E PLANT MONTHLY LOAD HOURS FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - - - - - - - - - - - N U M B E R O F H O U R S - - - - - - - - - - - - - - - - - -										--COINCIDENT LOADS--	
MONTH	HOURS COOLING LOAD	HOURS HEATING LOAD	HOURS COINCIDENT COOL-HEAT LOAD	HOURS FLOATING	HOURS HEATING AVAIL.	HOURS COOLING AVAIL.	HOURS FANS ON	HOURS FANS CYCLE ON	HOURS NIGHT VENTING	HOURS FLOATING WHEN FANS ON	HEATING LOAD AT COOLING PEAK (KBTU/HR)	ELECTRIC LOAD AT COOLING PEAK (KW)
JAN	0	390	0	354	744	744	597	0	0	207	0.000	4.287
FEB	0	205	0	467	672	672	537	0	0	332	0.000	3.203
MAR	1	38	0	705	744	744	595	0	0	556	0.000	3.203
APR	30	9	0	681	720	720	580	0	0	541	0.000	2.214
MAY	66	3	0	675	744	744	595	0	0	526	0.000	2.503
JUN	121	3	0	596	720	720	577	0	0	453	0.000	2.214
JUL	219	0	0	525	744	744	597	0	0	378	0.000	2.214
AUG	247	0	0	497	744	744	595	0	0	348	0.000	2.625
SEP	82	3	0	635	720	720	577	0	0	492	0.000	2.214
OCT	8	4	0	732	744	744	597	0	0	585	0.000	3.203
NOV	3	146	0	571	720	720	569	0	0	420	0.000	5.859
DEC	0	380	0	364	744	744	597	0	0	217	0.000	4.184
ANNUAL	777	1181	0	6802	8760	8760	7013	0	0	5055		

REPORT- SS-M FAN ELECTRIC ENERGY FOR PLANT PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	FAN ELECTRIC ENERGY DURING HEATING (KWH)	FAN ELECTRIC ENERGY DURING COOLING (KWH)	FAN ELECTRIC ENERGY DURING HEATING-COOLING (KWH)	FAN ELECTRIC ENERGY DURING FLOATING (KWH)
JAN	336.295	0.000	0.000	178.495
FEB	176.770	0.000	0.000	286.282
MAR	32.767	0.862	0.000	479.438
APR	7.761	25.869	0.000	466.503
MAY	2.587	56.912	0.000	453.569
JUN	2.587	104.338	0.000	390.621
JUL	0.000	188.842	0.000	325.948
AUG	0.000	212.987	0.000	300.079
SEP	2.587	70.708	0.000	424.250
OCT	3.449	6.898	0.000	504.445
NOV	125.895	2.587	0.000	362.165
DEC	327.672	0.000	0.000	187.118
ANNUAL	1018.378	670.007	0.000	4358.946

REPORT- SS-P LOAD, ENERGY AND PART LOAD DHW TANK OPERATION FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

TANK SIZE is 30.0 (GAL) HEATER CAP = 17.516 (KBTU/HR) FLOW RATE = 0.208 (GAL/MIN) PUMP = 0.000 (KW)

MONTH		UNIT LOAD SUM (MBTU) PEAK (KBTU/HR)	ENERGY USE (KWH) (KW)	RCV EN USE (KWH) (KW)	PUMP ENERGY (KWH) (KW)	Number of hours within each PART LOAD range 00 10	10 20	20 30	30 40	40 50	50 60	60 70	70 80	80 90	90 100	100 +	TOTAL RUN HOURS
JAN	SUM	1.707	568.141	0.000	0.000	240	319	185	0	0	0	0	0	0	0	0	744
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	31/20	31/20	31/24	31/24												
FEB	SUM	1.534	510.660	0.000	0.000	219	286	167	0	0	0	0	0	0	0	0	672
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	28/20	28/20	28/24	28/24												
MAR	SUM	1.703	566.686	0.000	0.000	242	316	186	0	0	0	0	0	0	0	0	744
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	31/20	31/20	31/24	31/24												
APR	SUM	1.661	552.983	0.000	0.000	230	310	180	0	0	0	0	0	0	0	0	720
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	30/20	30/20	30/ 1	30/ 1												
MAY	SUM	1.703	566.686	0.000	0.000	242	316	186	0	0	0	0	0	0	0	0	744
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	30/20	30/20	31/ 1	31/ 1												
JUN	SUM	1.649	548.981	0.000	0.000	233	308	179	0	0	0	0	0	0	0	0	720
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	30/20	30/20	30/ 1	30/ 1												
JUL	SUM	1.707	568.141	0.000	0.000	240	319	185	0	0	0	0	0	0	0	0	744
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	31/20	31/20	31/ 1	31/ 1												
AUG	SUM	1.703	566.686	0.000	0.000	242	316	186	0	0	0	0	0	0	0	0	744
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	29/20	29/20	31/ 1	31/ 1												
SEP	SUM	1.649	548.981	0.000	0.000	233	308	179	0	0	0	0	0	0	0	0	720
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	30/20	30/20	30/ 1	30/ 1												
OCT	SUM	1.707	568.141	0.000	0.000	240	319	185	0	0	0	0	0	0	0	0	744
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	31/20	31/20	31/24	31/24												
NOV	SUM	1.621	539.522	0.000	0.000	241	301	178	0	0	0	0	0	0	0	0	720
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	28/20	28/20	30/24	30/24												
DEC	SUM	1.707	568.141	0.000	0.000	240	319	185	0	0	0	0	0	0	0	0	744
	PEAK	4.372	1.455	0.000	0.000												
	DAY/HR	31/20	31/20	31/24	31/24												
YR	SUM	20.051	6673.710	0.000	0.000	2842	3737	2181	0	0	0	0	0	0	0	0	8760
	PEAK	4.372	1.455	0.000	0.000												
	MON/DAY	12/31	12/31	12/31	12/31												

REPORT- SS-Q HEAT PUMP COOLING SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)		INDOOR FAN ENERGY (MBTU)
JAN	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.305
FEB	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489
MAR	0.	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.821
APR	8.	0.640	0.160	0.000	0.000	0.000	0.000	0.000	0.000	0.884
MAY	18.	1.259	0.303	0.000	0.000	0.000	0.000	0.000	0.000	0.968
JUN	33.	2.160	0.519	0.000	0.000	0.000	0.000	0.000	0.000	1.023
JUL	65.	5.109	1.220	0.000	0.000	0.000	0.000	0.000	0.000	1.201
AUG	76.	6.471	1.575	0.000	0.000	0.000	0.000	0.000	0.000	1.239
SEP	23.	1.780	0.413	0.000	0.000	0.000	0.000	0.000	0.000	0.965
OCT	2.	0.055	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.884
NOV	1.	0.022	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.627
DEC	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.319
0ANNUAL	225.	17.496	4.210	0.000	0.000	0.000	0.000	0.000	0.000	9.725

0CSPF (WITH PARASITICS) = 1.26 (KBTU/HR)
0CSPF (WITHOUT PARASITICS) = 4.16 (BTU/BTU)

REPORT- SS-Q HEAT PUMP HEATING SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)	DEFROST LOAD (MBTU)	INDOOR FAN ENERGY (MBTU)
JAN	53.	-3.281	2.613	0.000	0.000	0.000	0.000	0.000	0.000	1.452
FEB	28.	-1.720	1.504	0.000	0.000	0.000	0.000	0.000	0.000	1.092
MAR	2.	-0.149	0.161	0.000	0.000	0.000	0.000	0.000	0.000	0.930
APR	0.	-0.004	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.823
MAY	0.	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.783
JUN	0.	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.675
JUL	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.556
AUG	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.512
SEP	0.	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.733
OCT	0.	-0.001	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.873
NOV	13.	-0.849	0.759	0.000	0.000	0.000	0.000	0.000	0.000	1.048
DEC	41.	-2.539	2.175	0.000	0.000	0.000	0.000	0.000	0.000	1.438
0ANNUAL	137.	-8.543	7.269	0.000	0.000	0.000	0.000	0.000	0.000	10.914

0HSPF (WITH PARASITICS)   =   1.07 (KBTU/HR)
0HSPF (WITHOUT PARASITICS) =   1.18 (BTU/BTU)

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000					0.000	-3.281	15	8	25.F	23.F	-23.808	3734.	8.743
FEB	0.00000					0.000	-1.720	19	8	23.F	21.F	-26.763	3109.	8.581
MAR	0.00080	18	16	69.F	51.F	0.797	-0.149	24	8	39.F	31.F	-9.501	3009.	7.709
APR	0.64044	27	16	81.F	63.F	34.245	-0.004	18	8	39.F	37.F	-3.135	2946.	8.278
MAY	1.25857	15	18	76.F	56.F	38.551	0.000	26	24	50.F	50.F	-0.144	3053.	8.584
JUN	2.15994	28	18	80.F	62.F	39.922	0.000	5	1	53.F	51.F	-0.085	3023.	8.797
JUL	5.10891	15	18	74.F	64.F	47.549	0.000					0.000	3326.	9.255
AUG	6.47066	10	18	89.F	66.F	44.300	0.000					0.000	3423.	9.313
SEP	1.77968	23	17	74.F	63.F	43.109	0.000	27	24	50.F	49.F	-0.154	2992.	8.706
OCT	0.05515	4	16	71.F	53.F	15.858	-0.001	22	23	49.F	47.F	-0.226	2975.	6.712
NOV	0.02201	4	15	70.F	61.F	11.469	-0.849	24	8	35.F	34.F	-16.706	3041.	7.808
DEC	0.00000					0.000	-2.539	26	8	30.F	30.F	-22.223	3606.	8.976
TOTAL	17.496						-8.543						38238.	
MAX						47.549						-26.763		9.313

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- -Z O N E C O O L I N G- -		- -Z O N E H E A T I N G -		- - B A S E B O A R D S - -		--PREHEAT OR FURN FAN ELEC--	
MONTH	COOLING BY ZONE COILS OR NAT VENTIL (MBTU)	MAXIMUM COOLING BY ZONE COILS OR NAT VENTIL (KBTU/HR)	HEATING BY ZONE COILS OR FURNACE (MBTU)	MAXIMUM HEATING BY ZONE COILS OR FURNACE (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING ENERGY (KBTU/HR)	PREHEAT COIL ENERGY OR ELEC FOR FURN FAN (MBTU)	MAXIMUM PREHEAT COIL ENERGY OR ELEC FOR FURN FAN (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
0TOTAL	0.000		0.000		0.000		0.000	
0MAX		0.000		0.000		0.000		0.000

REPORT- SS-C SYSTEM MONTHLY LOAD HOURS FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - - - - - - - - - - - N U M B E R O F H O U R S - - - - - - - - - - - - - - - - - -										--COINCIDENT LOADS--	
MONTH	HOURS COOLING LOAD	HOURS HEATING LOAD	HOURS COINCIDENT COOL-HEAT LOAD	HOURS FLOATING	HOURS HEATING AVAIL.	HOURS COOLING AVAIL.	HOURS FANS ON	HOURS FANS CYCLE ON	HOURS NIGHT VENTING	HOURS FLOATING WHEN FANS ON	HEATING LOAD AT COOLING PEAK (KBTU/HR)	ELECTRIC LOAD AT COOLING PEAK (KW)
JAN	0	390	0	354	744	744	597	0	0	207	-6.251	3.680
FEB	0	205	0	467	672	672	537	0	0	332	0.000	2.596
MAR	1	38	0	705	744	744	595	0	0	556	0.000	6.056
APR	30	9	0	681	720	720	580	0	0	541	0.000	7.321
MAY	66	3	0	675	744	744	595	0	0	526	0.000	8.584
JUN	121	3	0	596	720	720	577	0	0	453	0.000	8.797
JUL	219	0	0	525	744	744	597	0	0	378	0.000	8.934
AUG	247	0	0	497	744	744	595	0	0	348	0.000	7.739
SEP	82	3	0	635	720	720	577	0	0	492	0.000	8.706
OCT	8	4	0	732	744	744	597	0	0	585	0.000	6.591
NOV	3	146	0	571	720	720	569	0	0	420	0.000	6.824
DEC	0	380	0	364	744	744	597	0	0	217	-4.884	3.577
ANNUAL	777	1181	0	6802	8760	8760	7013	0	0	5055		

REPORT- SS-H SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- -F A N E L E C- - -		- -F U E L H E A T- -		- -F U E L C O O L- -		-E L E C H E A T- -		-E L E C C O O L- -	
MONTH	FAN ENERGY (KWH)	MAXIMUM FAN LOAD (KW)	GAS OIL ENERGY (MBTU)	MAXIMUM GAS OIL LOAD (KBTU/HR)	GAS OIL ENERGY (MBTU)	MAXIMUM GAS OIL LOAD (KBTU/HR)	ELECTRIC ENERGY (KWH)	MAXIMUM ELECTRIC LOAD (KW)	ELECTRIC ENERGY (KWH)	MAXIMUM ELECTRIC LOAD (KW)
JAN	515.	0.862	0.000	0.000	0.000	0.000	766.	4.076	0.	0.000
FEB	463.	0.862	0.000	0.000	0.000	0.000	441.	4.371	0.	0.000
MAR	513.	0.862	0.000	0.000	0.000	0.000	47.	2.597	0.	0.058
APR	500.	0.862	0.000	0.000	0.000	0.000	8.	1.948	47.	2.479
MAY	513.	0.862	0.000	0.000	0.000	0.000	2.	0.649	89.	2.587
JUN	498.	0.862	0.000	0.000	0.000	0.000	2.	0.660	152.	2.799
JUL	515.	0.862	0.000	0.000	0.000	0.000	0.	0.000	357.	3.257
AUG	513.	0.862	0.000	0.000	0.000	0.000	0.	0.000	461.	3.475
SEP	498.	0.862	0.000	0.000	0.000	0.000	2.	0.658	121.	2.709
OCT	515.	0.862	0.000	0.000	0.000	0.000	3.	0.651	4.	1.172
NOV	491.	0.862	0.000	0.000	0.000	0.000	222.	3.261	2.	0.827
DEC	515.	0.862	0.000	0.000	0.000	0.000	637.	3.925	0.	0.000
0TOTAL	6047.		0.000		0.000		2130.		1234.	
0MAX		0.862		0.000		0.000		4.371		3.475

REPORT- SS-I SYSTEM MONTHLY SENSIBLE LATENT SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	SENSIBLE COOLING ENERGY (MBTU)	LATENT COOLING ENERGY (MBTU)	MAX TOTAL COOLING ENERGY (KBTU/HR)	SENSIBLE HEAT RATIO AT MAX	TIME OF MAX DY	TIME OF MAX HR	SENSIBLE HEATING ENERGY (MBTU)	LATENT HEATING ENERGY (MBTU)	MAX TOTAL HEATING ENERGY (KBTU/HR)
JAN	0.00000	0.00000	0.000				-3.28113	0.00000	-23.80773
FEB	0.00000	0.00000	0.000				-1.71998	0.00000	-26.76302
MAR	0.00080	0.00000	0.797	1.000	18	16	-0.14912	0.00000	-9.501
APR	0.63459	0.00585	34.245	0.989	27	16	-0.00439	0.00000	-3.135
MAY	1.18031	0.07826	38.551	1.000	15	18	-0.00036	0.00000	-0.144
JUN	2.11878	0.04116	39.922	0.998	28	18	-0.00018	0.00000	-0.085
JUL	4.71616	0.39274	47.549	0.709	15	18	0.00000	0.00000	0.000
AUG	6.06778	0.40288	44.300	0.990	10	18	0.00000	0.00000	0.000
SEP	1.55176	0.22792	43.109	0.761	23	17	-0.00024	0.00000	-0.154
OCT	0.05515	0.00000	15.858	1.000	4	16	-0.00058	0.00000	-0.226
NOV	0.01715	0.00486	11.469	0.781	4	15	-0.84866	0.00000	-16.706
DEC	0.00000	0.00000	0.000				-2.53863	0.00000	-22.22261
TOTAL	16.342	1.154					-8.543	0.000	
MAX			47.549	0.709					-26.763

REPORT- SS-J SYSTEM PEAK HEATING AND COOLING DAYS FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - C O O L I N G - - - - -				- - - H E A T I N G - - -			D A Y C O O L I N G P E A K			
	JUL 15				FEB 19			JUL 24			
HOUR	HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP	HOURLY HEATING LOAD (KBTU)	DRY-BULB TEMP	WET-BULB TEMP	HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP
1	0.000	0.000	61.F	57.F	-18.646	25.F	24.F	0.000	0.000	65.F	57.F
2	0.000	0.000	59.F	57.F	-19.951	24.F	23.F	0.000	0.000	63.F	56.F
3	0.000	0.000	59.F	57.F	-20.369	26.F	24.F	0.000	0.000	62.F	56.F
4	0.000	0.000	58.F	56.F	0.000	23.F	22.F	0.000	0.000	62.F	56.F
5	0.000	0.000	57.F	56.F	0.000	22.F	21.F	0.000	0.000	60.F	55.F
6	0.000	0.000	58.F	56.F	0.000	22.F	21.F	0.000	0.000	63.F	57.F
7	0.000	0.000	58.F	56.F	0.000	23.F	22.F	0.000	0.000	66.F	59.F
8	0.000	0.000	60.F	57.F	-26.763	23.F	21.F	7.984	0.792	71.F	61.F
9	0.000	0.000	62.F	58.F	-20.994	26.F	24.F	22.597	0.956	75.F	62.F
10	0.000	0.000	64.F	59.F	-17.338	28.F	25.F	28.943	0.959	76.F	63.F
11	0.000	0.000	65.F	60.F	-9.837	29.F	25.F	32.233	0.970	80.F	64.F
12	0.000	0.000	67.F	61.F	-5.833	32.F	28.F	34.494	0.967	79.F	64.F
13	10.723	0.698	69.F	62.F	-2.103	35.F	29.F	37.242	0.974	83.F	65.F
14	25.566	0.690	71.F	63.F	0.000	36.F	29.F	40.209	0.983	85.F	65.F
15	33.148	0.714	72.F	63.F	0.000	36.F	29.F	42.611	0.982	87.F	66.F
16	39.368	0.738	73.F	63.F	0.000	37.F	30.F	42.656	0.982	84.F	65.F
17	47.549	0.709	74.F	64.F	0.000	35.F	29.F	41.558	0.989	83.F	64.F
18	44.506	0.689	73.F	64.F	0.000	32.F	28.F	42.574	0.982	84.F	65.F
19	32.297	0.696	71.F	63.F	0.000	30.F	26.F	40.433	0.995	82.F	63.F
20	0.968	0.700	66.F	61.F	0.000	30.F	26.F	41.037	0.868	75.F	62.F
21	0.000	0.000	65.F	61.F	-2.990	29.F	25.F	31.485	0.809	73.F	62.F
22	0.000	0.000	63.F	59.F	-3.738	29.F	26.F	4.529	0.841	69.F	60.F
23	0.000	0.000	60.F	58.F	-8.999	30.F	26.F	0.000	0.000	67.F	60.F
24	0.000	0.000	60.F	58.F	-12.388	29.F	25.F	0.000	0.000	62.F	58.F
SUM								490.584			
MAX	47.549				-26.763						

SYSTEM-TYPE	PSZ	SQFT/TON	748.0
COOLING PEAK	16.04 (BTU/HR- SQFT)	HEATING PEAK	-9.03 (BTU/HR- SQFT)
SUPPLY AIR PEAK FLOW	1.17 (CFM/SQFT)	MIN-OA/PERSON	15.00 (CFM)
OA FRAC AT CLG PEAK	1.000	OA FRAC AT HTG PEAK	0.043

** ASTERISKS INDICATE HOURS LOADS NOT MET*

REPORT- SS-K SPACE TEMPERATURE SUMMARY SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	AVERAGE SPACE TEMP					AVERAGE TEMPERATURE DIFFERENCE BETWEEN OUTDOOR& ROOM AIR			SUMMED TEMP DIFFERENCE BETWEEN OUTDOOR& ROOM AIR		
MONTH	ALL HOURS (F)	COOLING HOURS (F)	HEATING HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	ALL HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	HEATING HOURS (F)	ALL HOURS (F)	HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
JAN	70.64		70.87	71.10	68.79	-30.55	-30.56	-30.51	523.41	947.08	0.00002
FEB	71.37		70.88	71.85	69.47	-28.89	-28.64	-29.92	284.24	809.03	0.00000
MAR	72.69	74.55	71.23	73.07	71.18	-25.71	-24.98	-28.61	45.03	796.87	-0.00003
APR	73.60	74.72	73.30	73.86	72.55	-22.07	-20.98	-26.56	9.95	666.62	0.00000
MAY	74.14	74.79	73.97	74.27	73.59	-18.78	-17.42	-24.23	3.33	582.95	0.00004
JUN	74.46	74.80	73.99	74.46	74.49	-14.40	-12.83	-20.75	2.75	434.93	0.00002
JUL	74.68	74.84		74.57	75.14	-10.88	-9.06	-18.31		360.86	0.00015
AUG	74.68	74.82		74.56	75.18	-8.85	-6.86	-16.80		325.84	0.00029
SEP	74.39	74.83	73.98	74.39	74.37	-15.23	-13.92	-20.52	2.79	457.67	0.00006
OCT	73.71	74.69	73.98	73.90	72.94	-21.15	-20.43	-24.07	4.16	655.64	-0.00002
NOV	72.00	74.65	70.94	72.34	70.71	-25.48	-25.38	-25.87	179.14	764.49	-0.00001
DEC	70.92		70.90	71.34	69.18	-29.17	-29.14	-29.28	474.53	904.27	0.00001
ANNUAL	73.12	74.81	70.96	73.32	72.31	-20.88	-19.96	-24.59	1529.32	7706.24	0.00004

MONTH	FAN ELEC DURING HEATING (KWH)	FAN ELEC DURING COOLING (KWH)	FAN ELEC DURING HEAT & COOL (KWH)	FAN ELEC DURING FLOATING (KWH)	Number of hours within each PART LOAD range 00-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100+	TOTAL RUN HOURS
JAN	336.295	0.000	0.000	178.495	0	0	0	0	0	0	0	0	0	0	597	597
FEB	176.770	0.000	0.000	286.282	0	0	0	0	0	0	0	0	0	0	537	537
MAR	32.767	0.862	0.000	479.438	0	0	0	0	0	0	0	0	0	0	595	595
APR	7.761	25.869	0.000	466.503	0	0	0	0	0	0	0	0	0	0	580	580
MAY	2.587	56.912	0.000	453.569	0	0	0	0	0	0	0	0	0	0	595	595
JUN	2.587	104.338	0.000	390.621	0	0	0	0	0	0	0	0	0	0	577	577
JUL	0.000	188.842	0.000	325.948	0	0	0	0	0	0	0	0	0	0	597	597
AUG	0.000	212.987	0.000	300.079	0	0	0	0	0	0	0	0	0	0	595	595
SEP	2.587	70.708	0.000	424.250	0	0	0	0	0	0	0	0	0	0	577	577
OCT	3.449	6.898	0.000	504.445	0	0	0	0	0	0	0	0	0	0	597	597
NOV	125.895	2.587	0.000	362.165	0	0	0	0	0	0	0	0	0	0	569	569
DEC	327.672	0.000	0.000	187.118	0	0	0	0	0	0	0	0	0	0	597	597
ANNUAL	1018.378	670.007	0.000	4358.946	0	0	0	0	0	0	0	0	0	0	7013	7013

TOTAL HOURS AT RELATIVE HUMIDITY LEVEL AND TIME OF DAY

HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
90-100	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
80-89	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
70-79	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
60-69	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
50-59	22	20	2	0	0	0	17	21	22	26	27	26	24	16	13	11	12	14	18	20	21	25	29	28	414
40-49	85	93	13	0	0	0	64	73	89	101	105	97	92	96	89	91	89	94	91	84	83	80	81	90	1780
30-39	145	139	53	0	0	0	55	89	101	123	134	138	138	140	140	135	128	131	130	144	143	136	137	134	2613
20-29	88	90	71	0	0	0	5	48	49	70	81	90	95	96	101	108	112	102	102	87	91	98	96	89	1769
10-19	23	22	21	0	0	0	0	21	19	15	17	14	15	17	21	19	23	23	24	28	25	24	20	22	413
0-09	2	1	2	0	0	0	0	0	0	1	1	0	1	0	1	1	1	1	0	2	2	2	2	2	22
																									5

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*                                                           *
*  NOTE  1)THE RELATIVE HUMIDITY COUNTS ARE MADE ONLY FOR   *
*          THE HOURS WHEN THE FANS ARE ON                   *
*                                                           *
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REPORT- SS-P LOAD, ENERGY AND PART LOAD HEATING IN SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

UNIT TYPE is PSZ HEATING-CAPACITY = -95.781 (KBTU/HR) HEATING-EIR = 0.263 (BTU/BTU) SUPPLY-FLOW = 3477. (CFM)

MONTH		UNIT LOAD (MBTU) (KBTU/HR)	ENERGY USE (KWH) (KW)	COMPRESSOR (KWH) (KW)	FAN ENERGY (KWH) (KW)		Number of hours within each PART LOAD range 00-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100+	TOTAL RUN HOURS
JAN	SUM	-3.281	765.624	510.081	514.792	CMP	200	94	59	29	6	2	0	0	0	0	0	390
	PEAK	-23.808	4.076	2.930	0.862	FAN	0	0	0	0	0	0	0	0	0	0	390	390
	DAY/HR	15/ 8	6/ 8	6/ 8	31/24													
FEB	SUM	-1.720	440.674	266.492	463.054	CMP	90	66	35	9	4	1	0	0	0	0	0	205
	PEAK	-26.763	4.371	3.225	0.862	FAN	0	0	0	0	0	0	0	0	0	0	205	205
	DAY/HR	19/ 8	19/ 8	19/ 8	28/24													
MAR	SUM	-0.149	47.275	34.670	513.068	CMP	34	4	0	0	0	0	0	0	0	0	0	38
	PEAK	-9.501	2.597	1.451	0.862	FAN	0	0	0	0	0	0	0	0	0	0	38	38
	DAY/HR	24/ 8	5/ 8	5/ 8	31/24													
APR	SUM	-0.004	8.145	5.853	500.133	CMP	9	0	0	0	0	0	0	0	0	0	0	9
	PEAK	-3.135	1.948	0.802	0.862	FAN	0	0	0	0	0	0	0	0	0	0	9	9
	DAY/HR	18/ 8	18/ 8	18/ 8	30/ 1													
MAY	SUM	0.000	1.916	1.916	513.068	CMP	3	0	0	0	0	0	0	0	0	0	0	3
	PEAK	-0.144	0.649	0.649	0.862	FAN	0	0	0	0	0	0	0	0	0	0	3	3
	DAY/HR	26/24	26/24	26/24	31/ 1													
JUN	SUM	0.000	1.959	1.959	497.546	CMP	3	0	0	0	0	0	0	0	0	0	0	3
	PEAK	-0.085	0.660	0.660	0.862	FAN	0	0	0	0	0	0	0	0	0	0	3	3
	DAY/HR	5/ 1	5/ 1	5/ 1	30/ 1													
JUL	SUM	0.000	0.000	0.000	514.792	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.862	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/ 1	31/ 1	0/ 0	31/ 1													
AUG	SUM	0.000	0.000	0.000	513.068	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.862	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/ 1	31/ 1	0/ 0	31/ 1													
SEP	SUM	0.000	1.958	1.958	497.546	CMP	3	0	0	0	0	0	0	0	0	0	0	3
	PEAK	-0.154	0.658	0.658	0.862	FAN	0	0	0	0	0	0	0	0	0	0	3	3
	DAY/HR	27/24	30/ 8	30/ 8	30/ 1													
OCT	SUM	-0.001	2.584	2.584	514.792	CMP	4	0	0	0	0	0	0	0	0	0	0	4
	PEAK	-0.226	0.651	0.651	0.862	FAN	0	0	0	0	0	0	0	0	0	0	4	4
	DAY/HR	22/23	22/23	22/23	31/24													
NOV	SUM	-0.849	222.337	157.019	490.648	CMP	96	40	9	1	0	0	0	0	0	0	0	146
	PEAK	-16.706	3.261	2.115	0.862	FAN	0	0	0	0	0	0	0	0	0	0	146	146
	DAY/HR	24/ 8	24/ 8	24/ 8	30/24													
DEC	SUM	-2.539	637.417	442.607	514.792	CMP	229	76	60	14	1	0	0	0	0	0	0	380
	PEAK	-22.223	3.925	2.779	0.862	FAN	0	0	0	0	0	0	0	0	0	0	380	380
	DAY/HR	26/ 8	26/ 8	26/ 8	31/24													
YR	SUM	-8.543	2129.888	1425.139	6047.339	CMP	671	280	163	53	11	3	0	0	0	0	0	1181
	PEAK	-26.763	4.371	3.225	0.862	FAN	0	0	0	0	0	0	0	0	0	0	1181	1181
	MON/DAY	2/19	2/19	2/19	12/31													

REPORT- SS-P LOAD, ENERGY AND PART LOAD COOLING IN SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

UNIT TYPE is PSZ COOLING-CAPACITY = 105.819 (KBTU/HR) COOLING-EIR = 0.258 (BTU/BTU) SUPPLY-FLOW = 3477. (CFM)

MONTH		UNIT LOAD (MBTU) (KBTU/HR)	ENERGY USE (KWH) (KW)	COMPRESSOR (KWH) (KW)	FAN ENERGY (KWH) (KW)		00 10	10 20	20 30	30 40	40 50	50 60	60 70	70 80	80 90	90 100	100 +	TOTAL RUN HOURS
JAN	SUM	0.000	0.000	0.000	514.792	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.862	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/24	31/24	0/ 0	31/24													
FEB	SUM	0.000	0.000	0.000	463.054	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.862	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	28/24	28/24	0/ 0	28/24													
MAR	SUM	0.001	0.058	0.058	513.068	CMP	0	0	1	0	0	0	0	0	0	0	0	1
	PEAK	0.797	0.058	0.058	0.862	FAN	0	0	0	0	0	0	0	0	0	0	1	1
	DAY/HR	18/16	18/16	18/16	31/24													
APR	SUM	0.640	47.020	47.020	500.133	CMP	1	0	23	7	0	0	0	0	0	0	0	31
	PEAK	34.245	2.479	2.479	0.862	FAN	0	0	0	0	0	0	0	0	0	0	30	30
	DAY/HR	27/16	27/16	27/16	30/ 1													
MAY	SUM	1.259	88.681	88.681	513.068	CMP	0	0	56	10	0	0	0	0	0	0	0	66
	PEAK	38.551	2.587	2.587	0.862	FAN	0	0	0	0	0	0	0	0	0	0	66	66
	DAY/HR	15/18	15/18	15/18	31/ 1													
JUN	SUM	2.160	152.189	152.189	497.546	CMP	0	0	94	27	0	0	0	0	0	0	0	121
	PEAK	39.922	2.799	2.799	0.862	FAN	0	0	0	0	0	0	0	0	0	0	121	121
	DAY/HR	28/18	28/18	28/18	30/ 1													
JUL	SUM	5.109	357.403	357.403	514.792	CMP	2	0	135	73	11	0	0	0	0	0	0	221
	PEAK	47.549	3.257	3.257	0.862	FAN	0	0	0	0	0	0	0	0	0	0	219	219
	DAY/HR	15/18	24/16	24/16	31/ 1													
AUG	SUM	6.471	461.450	461.450	513.068	CMP	1	0	133	86	28	0	0	0	0	0	0	248
	PEAK	44.300	3.475	3.475	0.862	FAN	0	0	0	0	0	0	0	0	0	0	247	247
	DAY/HR	10/18	10/18	10/18	31/ 1													
SEP	SUM	1.780	121.152	121.152	497.546	CMP	0	0	57	25	0	0	0	0	0	0	0	82
	PEAK	43.109	2.709	2.709	0.862	FAN	0	0	0	0	0	0	0	0	0	0	82	82
	DAY/HR	23/17	23/17	23/17	30/ 1													
OCT	SUM	0.055	4.042	4.042	514.792	CMP	1	0	8	0	0	0	0	0	0	0	0	9
	PEAK	15.858	1.172	1.172	0.862	FAN	0	0	0	0	0	0	0	0	0	0	8	8
	DAY/HR	4/16	4/16	4/16	31/24													
NOV	SUM	0.022	1.589	1.589	490.648	CMP	0	0	3	0	0	0	0	0	0	0	0	3
	PEAK	11.469	0.827	0.827	0.862	FAN	0	0	0	0	0	0	0	0	0	0	3	3
	DAY/HR	4/15	4/15	4/15	30/24													
DEC	SUM	0.000	0.000	0.000	514.792	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.862	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/24	31/24	0/ 0	31/24													
YR	SUM	17.496	1233.585	1233.585	6047.339	CMP	5	0	510	228	39	0	0	0	0	0	0	782
	PEAK	47.549	3.475	3.475	0.862	FAN	0	0	0	0	0	0	0	0	0	0	777	777
	MON/DAY	7/15	8/10	8/10	12/31													

REPORT- SS-Q HEAT PUMP COOLING SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)		INDOOR FAN ENERGY (MBTU)
JAN	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.305
FEB	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.489
MAR	0.	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.821
APR	8.	0.640	0.160	0.000	0.000	0.000	0.000	0.000	0.000	0.884
MAY	18.	1.259	0.303	0.000	0.000	0.000	0.000	0.000	0.000	0.968
JUN	33.	2.160	0.519	0.000	0.000	0.000	0.000	0.000	0.000	1.023
JUL	65.	5.109	1.220	0.000	0.000	0.000	0.000	0.000	0.000	1.201
AUG	76.	6.471	1.575	0.000	0.000	0.000	0.000	0.000	0.000	1.239
SEP	23.	1.780	0.413	0.000	0.000	0.000	0.000	0.000	0.000	0.965
OCT	2.	0.055	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.884
NOV	1.	0.022	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.627
DEC	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.319
0ANNUAL	225.	17.496	4.210	0.000	0.000	0.000	0.000	0.000	0.000	9.725

0CSPF (WITH PARASITICS)   =   1.26 (KBTU/HR)
0CSPF (WITHOUT PARASITICS) =   4.16 (BTU/BTU)

REPORT- SS-Q HEAT PUMP HEATING SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)	DEFROST LOAD (MBTU)	INDOOR FAN ENERGY (MBTU)
JAN	53.	-3.281	2.613	0.000	0.000	0.000	0.000	0.000	0.000	1.452
FEB	28.	-1.720	1.504	0.000	0.000	0.000	0.000	0.000	0.000	1.092
MAR	2.	-0.149	0.161	0.000	0.000	0.000	0.000	0.000	0.000	0.930
APR	0.	-0.004	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.823
MAY	0.	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.783
JUN	0.	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.675
JUL	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.556
AUG	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.512
SEP	0.	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.733
OCT	0.	-0.001	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.873
NOV	13.	-0.849	0.759	0.000	0.000	0.000	0.000	0.000	0.000	1.048
DEC	41.	-2.539	2.175	0.000	0.000	0.000	0.000	0.000	0.000	1.438
0ANNUAL	137.	-8.543	7.269	0.000	0.000	0.000	0.000	0.000	0.000	10.914

0HSPF (WITH PARASITICS) = 1.07 (KBTU/HR)
0HSPF (WITHOUT PARASITICS) = 1.18 (BTU/BTU)

	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000				0.000	0.000				0.000	2454.	5.135
FEB	0.00000				0.000	0.000				0.000	2205.	5.135
MAR	0.00000				0.000	0.000				0.000	2449.	5.135
APR	0.00000				0.000	0.000				0.000	2391.	5.135
MAY	0.00000				0.000	0.000				0.000	2449.	5.135
JUN	0.00000				0.000	0.000				0.000	2371.	5.135
JUL	0.00000				0.000	0.000				0.000	2454.	5.135
AUG	0.00000				0.000	0.000				0.000	2449.	5.135
SEP	0.00000				0.000	0.000				0.000	2371.	5.135
OCT	0.00000				0.000	0.000				0.000	2454.	5.135
NOV	0.00000				0.000	0.000				0.000	2327.	5.135
DEC	0.00000				0.000	0.000				0.000	2454.	5.135
TOTAL	0.000					0.000					28826.	
MAX					0.000					0.000		5.135

	- - - -D E M A N D S- - - - -		- -B A S E B O A R D S- - -		- -T E M P E R A T U R E S- -		- -L O A D S N O T M E T- -	
MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	0.32208	-2.459	0.00000	0.000	73.1	70.3	0	0
FEB	0.77436	-1.279	0.00000	0.000	74.6	70.4	0	0
MAR	2.03225	-0.100	0.00000	0.000	74.6	70.6	0	0
APR	4.70676	-0.001	0.00000	0.000	74.9	71.0	0	0
MAY	7.62517	0.000	0.00000	0.000	75.0	72.0	0	0
JUN	9.28534	0.000	0.00000	0.000	75.1	73.6	0	0
JUL	11.75801	0.000	0.00000	0.000	75.1	74.0	0	0
AUG	11.28020	0.000	0.00000	0.000	75.2	74.0	0	0
SEP	8.15086	-0.002	0.00000	0.000	75.0	73.0	0	0
OCT	3.99749	-0.001	0.00000	0.000	74.8	71.5	0	0
NOV	1.10529	-0.629	0.00000	0.000	74.7	70.5	0	0
DEC	0.37305	-1.872	0.00000	0.000	74.1	70.3	0	0

TOTAL HOURS AT TEMPERATURE LEVEL AND TIME OF DAY

HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
ABOVE 85	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
80-85	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
75-80	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	15	18	16	8	0	0	0	0	0	70
70-75	365	365	162	0	0	0	141	252	281	337	365	365	365	362	355	350	347	349	357	365	365	365	365	365	6943
65-70	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
60-65	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
BELOW 60	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

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*****************************************************************
*                                                               *
*  NOTE  1)THE TEMPERATURE COUNTS ARE MADE ONLY FOR             *
*          THE HOURS WHEN THE FANS ARE ON                       *
*                                                               *
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EQUIPMENT	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL
----------	------	-- --	------	-- --	------	-- --	------	-- --	------	-- --	------	-- --

	SITE ENERGY												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
MONTH	TOTAL HEAT LOAD (MBTU)	TOTAL COOLING LOAD (MBTU)	TOTAL ELECTR LOAD (MWH)	RCVRED ENERGY (MBTU)	WASTED RCVRABL ENERGY (MBTU)	FUEL INPUT COOLING (MBTU)	ELEC INPUT COOLING (MWH)	FUEL INPUT HEATING (MBTU)	ELEC INPUT HEATING (MWH)	FUEL INPUT ELECT (MBTU)	TOTAL FUEL INPUT (MBTU)	TOTAL SITE ENERGY (MBTU)	TOTAL SOURCE ENERGY (MBTU)
JAN	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	14.7	44.1
FEB	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	12.4	37.1
MAR	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	12.2	36.6
APR	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	11.9	35.8
MAY	0.0	0.0	3.6	0.0	0.0	0.0	0.1	0.0	0.6	0.0	0.0	12.4	37.1
JUN	0.0	0.0	3.6	0.0	0.0	0.0	0.2	0.0	0.6	0.0	0.0	12.2	36.6
JUL	0.0	0.0	3.9	0.0	0.0	0.0	0.4	0.0	0.6	0.0	0.0	13.3	39.9
AUG	0.0	0.0	4.0	0.0	0.0	0.0	0.5	0.0	0.6	0.0	0.0	13.6	40.9
SEP	0.0	0.0	3.5	0.0	0.0	0.0	0.1	0.0	0.6	0.0	0.0	12.1	36.3
OCT	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	12.1	36.3
NOV	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	12.2	36.7
DEC	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	14.2	42.7
TOTAL	0.0	0.0	44.9	0.0	0.0	0.0	1.2	0.0	8.8	0.0	0.0	153.3	459.9

REPORT- PS-B MONTHLY UTILITY AND FUEL USE SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	BTU/UNIT:	ELECTRICITY METER-1 3413./KWH
JAN		
ENERGY CONSUMPTION (UNITS/MO)		4302.5
PEAK DEMAND (UNITS/HR OR DAY)		9.8
	PEAK DAY/HR	15/20
FEB		
ENERGY CONSUMPTION (UNITS/MO)		3619.5
PEAK DEMAND (UNITS/HR OR DAY)		9.7
	PEAK DAY/HR	18/20
MAR		
ENERGY CONSUMPTION (UNITS/MO)		3576.0
PEAK DEMAND (UNITS/HR OR DAY)		8.7
	PEAK DAY/HR	5/11
APR		
ENERGY CONSUMPTION (UNITS/MO)		3498.8
PEAK DEMAND (UNITS/HR OR DAY)		9.2
	PEAK DAY/HR	26/18
MAY		
ENERGY CONSUMPTION (UNITS/MO)		3619.2
PEAK DEMAND (UNITS/HR OR DAY)		9.6
	PEAK DAY/HR	15/18
JUN		
ENERGY CONSUMPTION (UNITS/MO)		3571.7
PEAK DEMAND (UNITS/HR OR DAY)		10.0
	PEAK DAY/HR	28/19
JUL		
ENERGY CONSUMPTION (UNITS/MO)		3894.3
PEAK DEMAND (UNITS/HR OR DAY)		10.5
	PEAK DAY/HR	24/19
AUG		
ENERGY CONSUMPTION (UNITS/MO)		3990.1
PEAK DEMAND (UNITS/HR OR DAY)		10.3
	PEAK DAY/HR	9/19
SEP		
ENERGY CONSUMPTION (UNITS/MO)		3540.6
PEAK DEMAND (UNITS/HR OR DAY)		9.5
	PEAK DAY/HR	12/18
OCT		
ENERGY CONSUMPTION (UNITS/MO)		3543.5
PEAK DEMAND (UNITS/HR OR DAY)		7.7
	PEAK DAY/HR	4/18
NOV		
ENERGY CONSUMPTION (UNITS/MO)		3581.0
PEAK DEMAND (UNITS/HR OR DAY)		9.1
	PEAK DAY/HR	29/20
DEC		
ENERGY CONSUMPTION (UNITS/MO)		4174.3
PEAK DEMAND (UNITS/HR OR DAY)		9.9
	PEAK DAY/HR	26/11
TOTAL		
ENERGY CONSUMPTION (UNITS/YR)		44911.6
PEAK DEMAND (UNITS/HR OR DAY)		10.5

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO 0 -- 10 -- 20 -- 30 -- 40 -- 50 -- 60 -- 70 -- 80 -- 90 -- 100 - 110+	TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (KWH)	THERMAL USED (MBTU)

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 0. 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- SEATTLE SEATTLE-T WA*

ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	44911.6	100.0
LOAD SATISFIED	44911.6	100.0
TOTAL LOAD ON PLANT	44912.4	

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
ELECTRICAL LOADS	153.3	153.3	0.000	0.000	0

REPORT- PS-E MONTHLY ENERGY END-USE SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

0ELECTRICAL END-USES IN KWH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 AREA LIGHTS	540.	485.	539.	526.	539.	522.	540.	539.	522.	540.	512.	540.	6346.
MAX KW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
DAY/HR	2/11	1/18	1/18	1/11	1/11	2/11	1/11	1/11	2/11	1/11	1/18	1/11	
0MISC EQUIPMT	1914.	1720.	1910.	1864.	1910.	1849.	1914.	1910.	1849.	1914.	1815.	1914.	22481.
MAX KW	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
DAY/HR	2/11	1/18	1/18	1/11	1/11	2/11	1/11	1/11	2/11	1/11	1/18	1/11	
0 SPACE HEAT	766.	441.	47.	8.	2.	2.	0.	0.	2.	3.	222.	637.	2130.
MAX KW	4.1	4.4	2.6	1.9	0.6	0.7	0.0	0.0	0.7	0.7	3.3	3.9	4.4
DAY/HR	6/ 8	19/ 8	5/ 8	18/ 8	26/24	5/ 1	0/ 0	0/ 0	30/ 8	22/23	24/ 8	26/ 8	
0 SPACE COOL	0.	0.	0.	47.	89.	152.	357.	461.	121.	4.	2.	0.	1234.
MAX KW	0.0	0.0	0.1	2.5	2.6	2.8	3.3	3.5	2.7	1.2	0.8	0.0	3.5
DAY/HR	0/ 0	0/ 0	18/16	27/16	15/18	28/18	24/16	10/18	23/17	4/16	4/15	0/ 0	
0 VENT FANS	515.	463.	513.	500.	513.	498.	515.	513.	498.	515.	491.	515.	6047.
MAX KW	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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	
0DOMHOT WATER	568.	511.	567.	553.	567.	549.	568.	567.	549.	568.	540.	568.	6674.
MAX KW	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
DAY/HR	2/ 8	3/ 8	3/ 8	1/ 8	1/ 8	2/ 8	1/ 8	1/ 8	2/ 8	1/ 8	3/ 8	1/ 8	
0 TOTAL KWH	4303.	3619.	3576.	3499.	3619.	3572.	3894.	3990.	3541.	3544.	3581.	4174.	44912.

0FUEL END-USES IN MBTU

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

0ENERGY-RESOURCE: ELECTRICITY
UNITS: KWH

0	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 PEAK DEMAND:	9.8	9.7	8.7	9.2	9.6	10.0	10.5	10.3	9.5	7.7	9.1	9.9
DAY/HR:	15/20	18/20	5/11	26/18	15/18	28/19	24/19	9/19	12/18	4/18	29/20	26/11
0BREAKDOWN												
0 AREA LIGHTS:	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
(%):	11.62	11.71	13.06	12.26	11.87	11.29	10.84	10.96	11.88	14.76	12.40	11.40
0MISC EQUIPMT:	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
(%):	41.02	41.32	46.11	43.27	41.88	39.83	38.27	38.68	41.91	52.08	43.77	40.23
0 SPACE HEAT:	2.30	2.23	1.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.81	2.98
(%):	23.59	23.04	19.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.80	29.95
0 SPACE COOL:	0.00	0.00	0.00	2.28	2.59	2.71	3.12	3.01	2.58	0.72	0.00	0.00
(%):	0.00	0.00	0.00	24.66	27.07	27.02	29.88	29.13	27.02	9.31	0.00	0.00
0 VENT FANS:	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
(%):	8.84	8.90	9.94	9.32	9.03	8.58	8.25	8.34	9.03	11.22	9.43	8.67
0DOMHOT WATER:	1.46	1.46	0.97	0.97	0.97	1.33	1.33	1.33	0.97	0.97	1.33	0.97
(%):	14.92	15.03	11.18	10.49	10.15	13.28	12.76	12.89	10.16	12.63	14.59	9.75

0ENERGY-RESOURCE: NATURAL-GAS
UNITS: THERM

0	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 PEAK DEMAND:	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:	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0
0BREAKDOWN												
0 AREA LIGHTS:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0MISC EQUIPMT:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 SPACE HEAT:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 SPACE COOL:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 VENT FANS:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0DOMHOT WATER:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL HOURS AT HOURLY DEMAND AND TIME OF DAY

	HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
	10	0	0	0	0	0	0	0	0	0	0	4	1	1	0	1	5	6	14	23	18	1	0	0	0	74
	9	0	0	0	0	0	0	0	1	9	0	23	27	23	21	23	32	28	34	24	26	30	27	0	0	328
	8	0	0	0	0	0	0	0	9	24	19	17	15	25	35	35	34	32	19	31	15	7	18	0	0	335
	8	0	0	0	0	0	0	0	28	11	18	48	38	34	31	29	24	26	36	240	257	26	268	17	0	1131
D	7	0	0	0	0	0	0	0	11	24	26	232	241	241	239	198	192	193	219	5	7	250	6	19	0	2103
E	6	5	3	3	0	0	0	0	21	7	26	41	43	41	39	41	41	42	7	7	4	6	4	17	34	432
M K	5	30	35	34	0	0	0	0	12	177	215	0	0	0	0	38	37	38	36	35	38	45	42	13	10	835
A W	4	15	26	27	0	0	0	0	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	299	30	567
N	4	36	29	32	0	0	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	201
D	3	93	15	14	0	0	0	0	0	61	61	0	0	0	0	0	0	0	0	0	0	0	0	0	239	483
	2	186	257	255	0	0	0	365	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1176
	1	0	0	0	365	365	365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1095
	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
		===	===	===	===	===	===	===	===	===	===	===	===	===	===	===	===	===	===	===	===	===	===	===	===	=====
	PERCENT TOTAL DEMAND	2.3	2.2	2.2	0.7	0.7	0.9	1.7	3.4	4.3	4.4	5.8	5.8	5.8	5.7	5.7	5.7	5.7	5.9	6.1	6.1	5.8	5.9	4.1	2.9	

PEAK ELECTRICAL LOAD BREAKDOWN

SOURCE	KW	PCT
SYSTEMS LOAD	10.456	100.0
	=========	
TOTAL	10.456	

E Q U I P M E N T	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS
			-- -- --										

E Q U I P M E N T T O T A L S

EQUIPMENT TOTAL	0.0

ENERGY TYPE: ELECTRICITY
UNITS: MBTU

CATEGORY OF USE	
AREA LIGHTS	21.7
MISC EQUIPMT	76.7
SPACE HEAT	7.3
SPACE COOL	4.2
VENT FANS	20.6
DOMHOT WATER	22.8
TOTAL	153.3

TOTAL SITE ENERGY	153.28 MBTU	51.7 KBTU/SQFT-YR GROSS-AREA	51.7 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	459.89 MBTU	155.2 KBTU/SQFT-YR GROSS-AREA	155.2 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.

ENERGY TYPE:	ELECTRICITY
SITE UNITS:	KWH
CATEGORY OF USE	
AREA LIGHTS	6346.
MISC EQUIPMT	22481.
SPACE HEAT	2130.
SPACE COOL	1234.
VENT FANS	6047.
DOMHOT WATER	6674.
TOTAL	44912.

TOTAL ELECTRICITY 44912. KWH 15.152 KWH /SQFT-YR GROSS-AREA 15.152 KWH /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.

MMDDHH	END-USE AREA LITE KW	END-USE TASK LITE KW	END-USE EQUIP ELEC KW	END-USE SOURCE ELEC KW	END-USE HEATING ELEC KW	END-USE SUPPLEMT ELEC KW	END-USE COOLING ELEC KW	END-USE HEAT REJ ELEC KW
	----(1)	----(2)	----(3)	----(4)	----(5)	----(11)	----(6)	----(7)
0 MONTHLY SUMMARY (JAN)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	4.076	0.000	0.000	0.000
SM	540.189	0.000	1913.781	0.000	765.623	0.000	0.000	0.000
AV	0.726	0.000	2.572	0.000	1.029	0.000	0.000	0.000
0 MONTHLY SUMMARY (FEB)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	4.371	0.000	0.000	0.000
SM	485.370	0.000	1719.713	0.000	440.674	0.000	0.000	0.000
AV	0.722	0.000	2.559	0.000	0.656	0.000	0.000	0.000
0 MONTHLY SUMMARY (MAR)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	2.597	0.000	0.058	0.000
SM	539.122	0.000	1909.780	0.000	47.275	0.000	0.058	0.000
AV	0.725	0.000	2.567	0.000	0.064	0.000	0.000	0.000
0 MONTHLY SUMMARY (APR)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	1.948	0.000	2.479	0.000
SM	526.318	0.000	1864.208	0.000	8.145	0.000	47.020	0.000
AV	0.731	0.000	2.589	0.000	0.011	0.000	0.065	0.000
0 MONTHLY SUMMARY (MAY)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	0.649	0.000	2.587	0.000
SM	539.122	0.000	1909.780	0.000	1.916	0.000	88.681	0.000
AV	0.725	0.000	2.567	0.000	0.003	0.000	0.119	0.000
0 MONTHLY SUMMARY (JUN)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	0.660	0.000	2.799	0.000
SM	521.916	0.000	1849.092	0.000	1.959	0.000	152.189	0.000
AV	0.725	0.000	2.568	0.000	0.003	0.000	0.211	0.000
0 MONTHLY SUMMARY (JUL)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	0.000	0.000	3.257	0.000
SM	540.189	0.000	1913.781	0.000	0.000	0.000	357.403	0.000
AV	0.726	0.000	2.572	0.000	0.000	0.000	0.480	0.000
0 MONTHLY SUMMARY (AUG)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	0.000	0.000	3.475	0.000
SM	539.122	0.000	1909.780	0.000	0.000	0.000	461.450	0.000
AV	0.725	0.000	2.567	0.000	0.000	0.000	0.620	0.000
0 MONTHLY SUMMARY (SEP)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	0.658	0.000	2.709	0.000
SM	521.916	0.000	1849.092	0.000	1.958	0.000	121.152	0.000
AV	0.725	0.000	2.568	0.000	0.003	0.000	0.168	0.000
0 MONTHLY SUMMARY (OCT)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	0.651	0.000	1.172	0.000
SM	540.189	0.000	1913.781	0.000	2.584	0.000	4.042	0.000
AV	0.726	0.000	2.572	0.000	0.003	0.000	0.005	0.000
0 MONTHLY SUMMARY (NOV)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	3.261	0.000	0.827	0.000
SM	512.046	0.000	1814.857	0.000	222.337	0.000	1.589	0.000
AV	0.711	0.000	2.521	0.000	0.309	0.000	0.002	0.000
0 MONTHLY SUMMARY (DEC)								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	3.925	0.000	0.000	0.000
SM	540.189	0.000	1913.781	0.000	637.416	0.000	0.000	0.000
AV	0.726	0.000	2.572	0.000	0.857	0.000	0.000	0.000
0 YEARLY SUMMARY								
MN	0.200	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	1.134	0.000	4.001	0.000	4.371	0.000	3.475	0.000
SM	6345.688	0.000	22481.424	0.000	2129.888	0.000	1233.584	0.000
AV	0.724	0.000	2.566	0.000	0.243	0.000	0.141	0.000

MMDDHH	END-USE AUXIL ELEC KW	END-USE VENTILAT ELEC KW	END-USE DHW HEAT ELEC KW	END-USE SOURCE FUEL BTU/HR	END-USE HEATING FUEL BTU/HR	END-USE COOLING FUEL BTU/HR	END-USE DHW HEAT FUEL BTU/HR	END-USE EXTERIOR LITE KW
	----(8)	----(9)	----(12)	----(14)	----(15)	----(16)	----(18)	----(20)
0 MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	514.791	568.141	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.692	0.764	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	463.053	510.660	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.689	0.760	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	513.066	566.686	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.690	0.762	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (APR)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	500.132	552.983	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.695	0.768	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	513.066	566.686	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.690	0.762	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	497.545	548.981	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.691	0.762	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	514.791	568.141	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.692	0.764	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	513.066	566.686	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.690	0.762	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	497.545	548.981	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.691	0.762	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	514.791	568.141	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.692	0.764	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	490.646	539.522	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.681	0.749	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	514.791	568.141	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.692	0.764	0.000	0.000	0.000	0.000	0.000
0 YEARLY SUMMARY								
MN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	1.455	0.000	0.000	0.000	0.000	0.000
SM	0.000	6047.281	6673.749	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.690	0.762	0.000	0.000	0.000	0.000	0.000

MMDDHH	END-USE EXT MISC ELEC KW	END-USE EXT MISC FUEL BTU/HR	END-USE METER STEAM UNITS	END-USE METER CHIL WTR UNITS	PLANT SYS HEAT LOAD BTU/HR	PLANT SYS COOL LOAD BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE TOTAL IN STORAGE BTU/HR
	----(21)	----(22)	----(33)	----(34)	----(1)	----(2)	----(1)	----(14)
0 MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (APR)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 YEARLY SUMMARY								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.

MESSAGE LIST FROM ECONOMICS PROGRAM

0 **CAUTION**********
BLOCK-CHARGE RATE-01-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-11-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-21-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-31-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-41-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-51-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-01-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-11-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-21-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-31-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-41-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-51-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

REPORT- ES-D ENERGY COST SUMMARY

UTILITY-RATE	RESOURCE	METERS	METERED ENERGY UNITS/YR	TOTAL CHARGE ($)	VIRTUAL RATE ($/UNIT)	RATE USED ALL YEAR?
0ELEC-CO Electric	ELECTRICITY	1 2 3 4 5	44912. KWH	31663.	0.7050	YES
0GAS-CO GAS	NATURAL-GAS	1 2 3 4 5	0. THERM	0.	0.0000	YES
0				==========		
0				31663.		

ENERGY COST/GROSS BLDG AREA: 10.68
ENERGY COST/NET BLDG AREA: 10.68

REPORT- ES-E SUMMARY OF UTILITY-RATE: ELEC-CO Electric

UTILITY-RATE: ELEC-CO Electric
RESOURCE: ELECTRICITY
METERS: 1 2 3 4 5
POWER-FACTOR: 0.80
DEMAND-WINDOW: HOUR
BILLING-DAY: 31
EXCESS-KVAR-FRAC: 0.30
3413. BTU/KWH
RATE-LIMITATION: 0.0000
EXCESS-KVAR-CHG: 0.0000

RATE-QUALIFICATIONS
MIN-ENERGY: 0.0
MAX-ENERGY: 0.0
MIN-DEMAND: 0.0
MAX-DEMAND: 0.0
QUALIFY-RATE: ALL-MONTHS
USE-MIN-QUAL: NO

BLOCK-CHARGES
RATE-01-ELECTRIC
RATE-11-ELECTRIC
RATE-21-ELECTRIC
RATE-31-ELECTRIC
RATE-41-ELECTRIC
RATE-51-ELECTRIC

DEMAND-RATCHETS

MIN-MON-RATCHETS

0

MONTH	METERED ENERGY KWH	BILLING ENERGY KWH	METERED DEMAND KW	BILLING DEMAND KW	ENERGY CHARGE ($)	DEMAND CHARGE ($)	ENERGY CST ADJ ($)	TAXES ($)	SURCHRG ($)	FIXED CHARGE ($)	MINIMUM CHARGE ($)	VIRTUAL RATE ($/UNIT)	TOTAL CHARGE ($)
0 JAN	4303	4303	9.8	9.8	3012	20	0	0	0	0	0	0.7046	3032
0 FEB	3619	3619	9.7	9.7	2534	20	0	0	0	0	0	0.7055	2554
0 MAR	3576	3576	8.7	8.7	2503	16	0	0	0	0	0	0.7045	2519
0 APR	3499	3499	9.2	9.2	2449	18	0	0	0	0	0	0.7052	2467
0 MAY	3619	3619	9.6	9.6	2533	18	0	0	0	0	0	0.7050	2551
0 JUN	3572	3572	10.0	10.0	2500	19	0	0	0	0	0	0.7055	2520
0 JUL	3894	3894	10.5	10.5	2726	20	0	0	0	0	0	0.7051	2746
0 AUG	3990	3990	10.3	10.3	2793	21	0	0	0	0	0	0.7051	2814
0 SEP	3541	3541	9.5	9.5	2478	19	0	0	0	0	0	0.7053	2497
0 OCT	3544	3544	7.7	7.7	2480	15	0	0	0	0	0	0.7044	2496
0 NOV	3581	3581	9.1	9.1	2507	19	0	0	0	0	0	0.7052	2525
0 DEC	4174	4174	9.9	9.9	2922	20	0	0	0	0	0	0.7048	2942
TOTAL	44912	44912	10.5		31438	225	0	0	0	0		0.7050	31663

REPORT- ES-F BLOCK-CHARGE AND RATCHET SUMMARY FOR: ELEC-CO Electric

UTILITY-RATE: ELEC-CO Electric
RESOURCE: ELECTRICITY
ENERGY-UNITS: KWH
DEMAND-UNITS: KW
DEMAND-WINDOW: HOUR

0

BLOCK-CHARGES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
0RATE-01-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	868	761	667	573	0	0	0	0	0	0	808	845	
BILLING ENERGY:	868	761	667	573	0	0	0	0	0	0	808	845	4520
METERED DEMAND:	9.1	9.2	6.6	7.9	0.0	0.0	0.0	0.0	0.0	0.0	8.7	9.1	
BILLING DEMAND:	9.1	9.2	6.6	7.9	0.0	0.0	0.0	0.0	0.0	0.0	8.7	9.1	
ENERGY CHGS($):	607	533	467	401	0	0	0	0	0	0	565	591	3164
DEMAND CHGS($):	6	6	5	6	0	0	0	0	0	0	6	6	36
TOTAL CHGS($):	614	539	471	406	0	0	0	0	0	0	571	598	3200
0RATE-11-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	2305	1886	1879	1899	0	0	0	0	0	0	1749	2182	
BILLING ENERGY:	2305	1886	1879	1899	0	0	0	0	0	0	1749	2182	11900
METERED DEMAND:	9.7	9.6	8.7	8.8	0.0	0.0	0.0	0.0	0.0	0.0	8.7	9.9	
BILLING DEMAND:	9.7	9.6	8.7	8.8	0.0	0.0	0.0	0.0	0.0	0.0	8.7	9.9	
ENERGY CHGS($):	1614	1320	1315	1329	0	0	0	0	0	0	1224	1527	8330
DEMAND CHGS($):	7	7	6	6	0	0	0	0	0	0	6	7	39
TOTAL CHGS($):	1620	1327	1321	1335	0	0	0	0	0	0	1230	1534	8369
0RATE-21-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	651	610	623	686	605	609	0	0	
BILLING ENERGY:	0	0	0	0	651	610	623	686	605	609	0	0	3783
METERED DEMAND:	0.0	0.0	0.0	0.0	7.2	8.7	8.2	9.0	8.0	6.8	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	7.2	8.7	8.2	9.0	8.0	6.8	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	456	427	436	481	423	426	0	0	2648
DEMAND CHGS($):	0	0	0	0	5	6	6	6	6	5	0	0	34
TOTAL CHGS($):	0	0	0	0	461	433	442	487	429	431	0	0	2682
0RATE-31-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	1867	1857	2029	2034	1853	1875	0	0	
BILLING ENERGY:	0	0	0	0	1867	1857	2029	2034	1853	1875	0	0	11515
METERED DEMAND:	0.0	0.0	0.0	0.0	8.9	9.0	10.0	9.9	9.4	7.6	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	8.9	9.0	10.0	9.9	9.4	7.6	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	1307	1300	1420	1424	1297	1313	0	0	8061
DEMAND CHGS($):	0	0	0	0	6	6	7	7	7	5	0	0	38
TOTAL CHGS($):	0	0	0	0	1313	1306	1427	1431	1304	1318	0	0	8099
0RATE-41-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	1101	1105	1242	1270	1083	1059	0	0	
BILLING ENERGY:	0	0	0	0	1101	1105	1242	1270	1083	1059	0	0	6861
METERED DEMAND:	0.0	0.0	0.0	0.0	9.6	10.0	10.5	10.3	9.5	7.7	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	9.6	10.0	10.5	10.3	9.5	7.7	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	771	773	870	889	758	742	0	0	4803
DEMAND CHGS($):	0	0	0	0	7	7	7	7	7	5	0	0	40
TOTAL CHGS($):	0	0	0	0	778	781	877	896	765	747	0	0	4843
0RATE-51-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	1130	972	1031	1027	0	0	0	0	0	0	1025	1148	
BILLING ENERGY:	1130	972	1031	1027	0	0	0	0	0	0	1025	1148	6332
METERED DEMAND:	9.8	9.7	7.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0	9.1	9.4	
BILLING DEMAND:	9.8	9.7	7.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0	9.1	9.4	
ENERGY CHGS($):	791	680	722	719	0	0	0	0	0	0	717	803	4432
DEMAND CHGS($):	7	7	5	6	0	0	0	0	0	0	6	7	38
TOTAL CHGS($):	798	687	727	726	0	0	0	0	0	0	724	810	4471
TOTAL ENERGY:	4303	3619	3576	3499	3619	3572	3894	3990	3541	3544	3581	4174	44912
TOTAL CHARGES ($):	3032	2554	2519	2467	2551	2520	2746	2814	2497	2496	2525	2942	31663

REPORT- ES-E SUMMARY OF UTILITY-RATE: GAS-CO GAS

UTILITY-RATE: GAS-CO GAS RESOURCE: NATURAL-GAS DEMAND-WINDOW: HOUR 100000. BTU/THERM
METERS: 1 2 3 4 5 BILLING-DAY: 31 RATE-LIMITATION: 0.0000

RATE-QUALIFICATIONS
MIN-ENERGY: 0.0
MAX-ENERGY: 0.0
MIN-DEMAND: 0.0
MAX-DEMAND: 0.0
QUALIFY-RATE: ALL-MONTHS
USE-MIN-QUAL: NO

BLOCK-CHARGES
RATE-01-NATURAL-
RATE-11-NATURAL-
RATE-21-NATURAL-
RATE-31-NATURAL-
RATE-41-NATURAL-
RATE-51-NATURAL-

DEMAND-RATCHETS

MIN-MON-RATCHETS

0

MONTH	METERED ENERGY THERM	BILLING ENERGY THERM	METERED DEMAND THERMS	BILLING DEMAND THERMS	ENERGY CHARGE ($)	DEMAND CHARGE ($)	ENERGY CST ADJ ($)	TAXES ($)	SURCHRG ($)	FIXED CHARGE ($)	MINIMUM CHARGE ($)	VIRTUAL RATE ($/UNIT)	TOTAL CHARGE ($)
0 JAN	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 FEB	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 MAR	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 APR	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 MAY	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 JUN	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 JUL	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 AUG	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 SEP	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 OCT	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 NOV	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 DEC	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
TOTAL	0	0	0.0		0	0	0	0	0	0		0.0000	0

Proposed Building (ASHRAE 90.1 Appendix East Town Crossing Lot 1 Tenant-1 DOE-2.1E-124 Tue Jun 3 14:29:03 2025EDL RUN 1

REPORT- ES-F BLOCK-CHARGE AND RATCHET SUMMARY FOR: GAS-CO GAS

UTILITY-RATE: GAS-CO GAS
RESOURCE: NATURAL-GAS
ENERGY-UNITS: THERM
DEMAND-UNITS: THERMS
DEMAND-WINDOW: HOUR
0

BLOCK-CHARGES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
0RATE-01-NATURAL- USE: TIME-OF-USE													
0RATE-11-NATURAL- USE: TIME-OF-USE													
0RATE-21-NATURAL- USE: TIME-OF-USE													
0RATE-31-NATURAL- USE: TIME-OF-USE													
0RATE-41-NATURAL- USE: TIME-OF-USE													
0RATE-51-NATURAL- USE: TIME-OF-USE													
TOTAL CHARGES ($):	0	0	0	0	0	0	0	0	0	0	0	0	0

DOE-2 UNITS TABLE

	ENGLISH	MULTIPLIED BY	GIVES	METRIC	MULTIPLIED BY	GIVES	ENGLISH
1			1.000000			1.000000	
2			1.000000			1.000000	
3	BTU		0.293000	WH		3.412969	BTU
4	BTU/HR		0.293000	WATT		3.412969	BTU/HR
5	BTU/LB-F		4183.830078	J/KG-K		0.000239	BTU/LB-F
6	BTU/HR-SQFT-F		5.674460	W/M2-K		0.176228	BTU/HR-SQFT-F
7	DEGREES		1.000000	DEGREES		1.000000	DEGREES
9	SQFT		0.092903	M2		10.763915	SQFT
10	CUFT		0.028317	M3		35.314724	CUFT
11	LB/HR		0.453592	KG/HR		2.204624	LB/HR
12	LB/CUFT		16.018459	KG/M3		0.062428	LB/CUFT
13	MPH		0.447040	M/S		2.236936	MPH
14	BTU/HR-F		0.527178	W/K		1.896893	BTU/HR-F
15	FT		0.304800	M		3.280840	FT
16	BTU/HR-FT-F		1.729600	W/M-K		0.578168	BTU/HR-FT-F
17	BTU/HR- SQFT		3.152480	WATT /M2		0.317211	BTU/HR- SQFT
18	IN		2.540000	CM		0.393701	IN
19	UNITS/IN		0.393700	UNITS/CM		2.540005	UNITS/IN
20	UNITS		1.000000	UNITS		1.000000	UNITS
21	LB		0.453592	KG		2.204624	LB
22	FRAC.OR MULT.		1.000000	FRAC.OR MULT.		1.000000	FRAC.OR MULT.
23	HOURS		1.000000	HRS		1.000000	HOURS
24	PERCENT-RH		1.000000	PERCENT-RH		1.000000	PERCENT-RH
25	CFM		1.699010	M3/H		0.588578	CFM
26	IN-WATER		25.400000	MM-WATER		0.039370	IN-WATER
27	LB/SQFT		4.882400	KG/M2		0.204817	LB/SQFT
28	KW		1.000000	KW		1.000000	KW
29	W/SQFT		10.763920	W/M2		0.092903	W/SQFT
30	THERMS		25.000000	THERMIES		0.040000	THERMS
31	KNOTS		0.514440	M/SEC		1.943861	KNOTS
32	HR-SQFT-F /BTU		0.176228	M2-K /W		5.674467	HR-SQFT-F /BTU
33	$DOLLARS		1.000000	$DOLLARS		1.000000	$DOLLARS
34	MBTU/HR		0.293000	MWATT		3.412969	MBTU/HR
35	YEARS		1.000000	YEARS		1.000000	YEARS
36	$/HR		1.000000	$/HR		1.000000	$/HR
37	HRS/YEARS		1.000000	HRS/YEARS		1.000000	HRS/YEARS
38	PERCENT		1.000000	PERCENT		1.000000	PERCENT
39	$/MONTH		1.000000	$/MONTH		1.000000	$/MONTH
40	GALLONS/MIN/TON		1.078000	LITERS/MIN/KW		0.927644	GALLONS/MIN/TON
41	BTU/LB		0.645683	WH/KG		1.548748	BTU/LB
42	LBS/SQIN-GAGE		68.947571	MBAR-GAGE		0.014504	LBS/SQIN-GAGE
43	$/UNIT		1.000000	$/UNIT		1.000000	$/UNIT
44	BTU/HR/PERSON		0.293000	W/PERSON		3.412969	BTU/HR/PERSON
45	LBS/LB		1.000000	KGS/KG		1.000000	LBS/LB
46	BTU/BTU		1.000000	KWH/KWH		1.000000	BTU/BTU
47	LBS/KW		0.453590	KG/KW		2.204634	LBS/KW
48	REV/MIN		1.000000	REV/MIN		1.000000	REV/MIN
49	KW/TON		1.000000	KW/TON		1.000000	KW/TON
50	MBTU		0.293000	MWH		3.412969	MBTU
51	GAL		3.785410	LITER		0.264172	GAL
52	GAL/MIN		3.785410	LITERS/MIN		0.264172	GAL/MIN
53	BTU/F		1897.800049	J/K		0.000527	BTU/F
54	UNITS/HR		1.000000	UNITS/HR		1.000000	UNITS/HR
55	$/UNIT-HR		1.000000	$/UNIT-HR		1.000000	$/UNIT-HR
56	KW/CFM		0.588500	KW/M3/HR		1.699235	KW/CFM
57	BTU/SQFT-F		20428.400391	J/M2-K		0.000049	BTU/SQFT-F
58	HR/HR		1.000000	HR/HR		1.000000	HR/HR
59	BTU/FT-F		6226.479980	J/M-K		0.000161	BTU/FT-F
60	R		0.555556	K		1.799999	R
61	INCH MER		33.863800	MBAR		0.029530	INCH MER
62	UNITS/GAL/MIN		0.264170	UNITS/LITER/MIN		3.785441	UNITS/GAL/MIN
63	(HR-SQFT-F/BTU)2		0.031056	(M2-K /W)2		32.199585	(HR-SQFT-F/BTU)2
64	KBTU/HR		0.293000	KW		3.412969	KBTU/HR
65	KBTU		0.293000	KWH		3.412969	KBTU
66	CFM		0.471900	L/S		2.119093	CFM
67	CFM/SQFT		18.288000	M3/H-M2		0.054681	CFM/SQFT
68	1/R		1.799900	1/K		0.555586	1/R
69	1/KNOT		1.943860	SEC/M		0.514440	1/KNOT
70	FOOTCANDLES		10.763910	LUX		0.092903	FOOTCANDLES
71	FOOTLAMBERT		3.426259	CANDELA/M2		0.291864	FOOTLAMBERT
72	LUMEN / WATT		1.000000	LUMEN / WATT		1.000000	LUMEN / WATT
73	KBTU/SQFT-YR		3.152480	KWH/M2-YR		0.317211	KBTU/SQFT-YR

DATA FOR SPACE 1-Tenant 2 Train

LOCATION OF ORIGIN IN BUILDING COORDINATES XB (FT)	YB (FT)	ZB (FT)	SPACE AZIMUTH (DEG)	SPACE*FLOOR MULTIPLIER	HEIGHT (FT)	AREA (SQFT)	VOLUME (CUFT)
0.00	0.00	0.00	0.00	1.0	8.00	2027.00	16216.00

TOTAL NUMBER OF SURFACES	NUMBER OF EXTERIOR SURFACES	NUMBER OF INTERIOR SURFACES	NUMBER OF UNDERGROUND SURFACES	DAYLIGHTING	SUNSPACE
6	5	0	1	NO	NO

NUMBER OF SUBSURFACES

TOTAL	EXTERIOR WINDOWS	DOORS	INTERIOR WINDOWS
4	4	0	0

FLOOR WEIGHT (LB/SQFT)	CALCULATION TEMPERATURE (F)
91.4	72.0

INFILTRATION

SCHEDULE	INFILTRATION CALCULATION METHOD	FLOW RATE (CFM/SQFT)	AIR CHANGES PER HOUR	HEIGHT TO NEUTRAL ZONE (FT)
	AIR-CHANGE	0.00	0.00	0.0

PEOPLE

SCHEDULE	NUMBER	AREA PER PERSON (SQFT)	PEOPLE ACTIVITY (BTU/HR)	PEOPLE SENSIBLE (BTU/HR)	PEOPLE LATENT (BTU/HR)
SCHED-185	10.0	202.7	0.0	255.0	875.0

LIGHTING

SCHEDULE	LIGHTING TYPE	LOAD (WATTS/ SQFT)	LOAD (KW)	FRACTION OF LOAD TO SPACE
SCHED-186	REC-FLUOR-NV	0.75	0.00	1.00

TASK LIGHTING

SCHEDULE	LOAD (WATTS/ SQFT)	LOAD (KW)
SCHED-186	0.00	0.

ELECTRICAL EQUIPMENT

SCHEDULE	ELEC LOAD (WATTS/ SQFT)	ELEC LOAD (KW)	FRACTION OF LOAD TO SPACE SENSIBLE	LATENT
SCHED-187	1.00	0.00	1.00	0.00

EXTERIOR SURFACES (U-VALUE EXCLUDES OUTSIDE AIR FILM)

SURFACE	MULTIPLIER	AREA (SQFT)	WIDTH (FT)	HEIGHT (FT)	CONSTRUCTION	U-VALUE (BTU/HR-SQFT-F)	SURFACE TYPE
	1.0	580.00	72.50	8.00	Wall-0	0.097	DELAYED
	1.0	568.00	71.00	8.00	Wall-0	0.097	DELAYED
	1.0	602.00	75.25	8.00	Wall-0	0.097	DELAYED
	1.0	76.00	9.50	8.00	Wall-0	0.097	DELAYED
	1.0	2026.80	45.02	45.02	Roof-2	0.032	DELAYED

SURFACE	AZIMUTH (DEG)	TILT (DEG)	LOCATION OF ORIGIN IN BUILDING COORDINATES XB (FT)	YB (FT)	ZB (FT)	LOCATION OF ORIGIN IN SPACE COORDINATES X (FT)	Y (FT)	Z (FT)
	0.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	90.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	180.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	270.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00

UNDERGROUND SURFACES (U-VALUE INCLUDES INSIDE AIR FILM)

SURFACE	MULTIPLIER	AREA (SQFT)	CONSTRUCTION	U-VALUE (BTU/HR-SQFT-F)
	1.0	2027.00	Slab-1	0.74

EXTERIOR WINDOWS (U-VALUE INCLUDES OUTSIDE AIR FILM)

WINDOW	MULTIPLIER	GLASS AREA (SQFT)	GLASS SHADING COEFF	NUMBER OF PANES	GLASS TYPE CODE	SET-BACK (FT)	GLASS WIDTH (FT)	GLASS HEIGHT (FT)	CENTER-OF-GLASS U-VALUE (BTU/HR-SQFT-F)	GLASS VISIBLE TRANS
	1.0	188.03	0.44	1	1	0.00	28.19	6.67	0.300	0.900
	1.0	110.99	0.44	1	1	0.00	16.64	6.67	0.300	0.900
	1.0	174.02	0.44	1	1	0.00	26.09	6.67	0.300	0.900
	1.0	50.03	0.44	1	1	0.00	7.50	6.67	0.400	0.900

WINDOW	LOCATED IN SURFACE	LOCATION OF ORIGIN IN BUILDING COORDINATES XB (FT)	YB (FT)	ZB (FT)	LOCATION OF ORIGIN IN SURFACE COORDINATES X (FT)	Y (FT)
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00

REPORT- LV-D DETAILS OF EXTERIOR SURFACES IN THE PROJECT WEATHER FILE- SEATTLE SEATTLE-T WA

NUMBER OF EXTERIOR SURFACES 5 RECTANGULAR 5 OTHER 0
(U-VALUE INCLUDES OUTSIDE AIR FILM; WINDOW INCLUDES FRAME, IF DEFINED)

SURFACE	SPACE	- - - W I N D O W S - - - U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	- - - - W A L L - - - - U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	-W A L L + W I N D O W S- U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	AZIMUTH
	1-Tenant 2 Train	0.300	188.03	0.093	391.97	0.160	580.00	NORTH
	1-Tenant 2 Train	0.300	110.99	0.093	457.01	0.134	568.00	EAST
	1-Tenant 2 Train	0.322	224.05	0.093	377.95	0.179	602.00	SOUTH
	1-Tenant 2 Train	0.000	0.00	0.093	76.00	0.093	76.00	WEST
	1-Tenant 2 Train	0.000	0.00	0.032	2026.80	0.032	2026.80	ROOF
	1-Tenant 2 Train	0.000	0.00	0.735	2027.00	0.735	2027.00	UNDERGRND

	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	0.300	0.093	0.160	188.03	391.97	580.00
EAST	0.300	0.093	0.134	110.99	457.01	568.00
SOUTH	0.322	0.093	0.179	224.05	377.95	602.00
WEST	0.000	0.093	0.093	0.00	76.00	76.00
ROOF	0.000	0.032	0.032	0.00	2026.80	2026.80
ALL WALLS	0.310	0.093	0.155	523.06	1302.94	1826.00
WALLS+ROOFS	0.310	0.056	0.090	523.06	3329.74	3852.80
UNDERGRND	0.000	0.735	0.735	0.00	2027.00	2027.00
BUILDING	0.310	0.313	0.313	523.06	5356.74	5879.80

NUMBER OF CONSTRUCTIONS 3 DELAYED 3 QUICK 0

CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)	SURFACE ABSORPTANCE	SURFACE ROUGHNESS INDEX	SURFACE TYPE	NUMBER OF RESPONSE FACTORS
Wall-0	0.097	0.70	1	DELAYED	9
Slab-1	0.735	0.70	3	DELAYED	5
Roof-2	0.032	0.90	3	DELAYED	11

Proposed Building (ASHRAE 90.1 Appendix East Town Crossing Lot 1 Tenant 2 DOE-2.1E-124 Tue Jun 3 14:28:18 2025LDL RUN 1

REPORT- LS-A SPACE PEAK LOADS SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

SPACE NAME	MULTIPLIER SPACE	MULTIPLIER FLOOR	COOLING LOAD (KBTU/HR)	TIME OF PEAK	DRY-BULB	WET-BULB	HEATING LOAD (KBTU/HR)	TIME OF PEAK	DRY-BULB	WET-BULB
1-Tenant 2 Train	1.	1.	27.580	AUG 8 5 PM	86.F	65.F	-16.083	FEB 19 7 AM	23.F	22.F
SUM			27.580				-16.083			
BUILDING PEAK			27.580	AUG 8 5 PM	86.F	65.F	-16.083	FEB 19 7 AM	23.F	22.F

SPACE 1-Tenant 2 Train
SPACE TEMPERATURE USED FOR THE LOADS CALCULATION IS 72 F / 22 C

MULTIPLIER 1.0 *FLOOR MULTIPLIER* 1.0

FLOOR AREA	*2027*	*SQFT*	*188*	*M2*
VOLUME	*16216*	*CUFT*	*459*	*M3*

TIME	*COOLING LOAD AUG 8 5PM*		*HEATING LOAD FEB 19 7AM*	
DRY-BULB TEMP	*86 F*	*30 C*	*23 F*	*-5 C*
WET-BULB TEMP	*65 F*	*18 C*	*22 F*	*-6 C*
TOT HORIZONTAL SOLAR RAD	*193 BTU/H.SQFT*	*608 W/M2*	*0 BTU/H.SQFT*	*0 W/M2*
WINDSPEED AT SPACE	*5.8 KTS*	*3.0 M/S*	*6.4 KTS*	*3.3 M/S*
CLOUD AMOUNT 0(CLEAR)-10	*0*		*3*	

	SENSIBLE (KBTU/H)	*(KW)*	*LATENT (KBTU/H)*	*(KW)*	*SENSIBLE (KBTU/H)*	*(KW)*
WALL CONDUCTION	*3.078*	*0.902*	*0.000*	*0.000*	*-5.974*	*-1.750*
ROOF CONDUCTION	*4.257*	*1.247*	*0.000*	*0.000*	*-3.409*	*-0.999*
WINDOW GLASS+FRM COND	*1.087*	*0.318*	*0.000*	*0.000*	*-7.403*	*-2.169*
WINDOW GLASS SOLAR	*11.012*	*3.226*	*0.000*	*0.000*	*1.258*	*0.368*
DOOR CONDUCTION	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*
INTERNAL SURFACE COND	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*
UNDERGROUND SURF COND	*-1.331*	*-0.390*	*0.000*	*0.000*	*-2.715*	*-0.796*
OCCUPANTS TO SPACE	*0.189*	*0.055*	*0.000*	*0.000*	*0.550*	*0.161*
LIGHT TO SPACE	*3.719*	*1.090*	*0.000*	*0.000*	*0.778*	*0.228*
EQUIPMENT TO SPACE	*5.570*	*1.632*	*0.000*	*0.000*	*0.834*	*0.244*
PROCESS TO SPACE	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*
INFILTRATION	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*
TOTAL	*27.580*	*8.081*	*0.000*	*0.000*	*-16.083*	*-4.712*
TOTAL / AREA	*0.014*	*0.043*	*0.000*	*0.000*	*-0.008*	*-0.025*
TOTAL LOAD	*27.580 KBTU/H*		*8.081 KW*		*-16.083 KBTU/H*	*-4.712 KW*
TOTAL LOAD / AREA	*13.61 BTU/H.SQFT*		*42.913 W/M2*		*7.934 BTU/H.SQFT*	*25.023 W/M2*

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* *NOTE 1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR* *
* *---- LOADS* *
* *2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION* *
* *IN CONSIDERATION* *
* *3)THE ABOVE LOADS ARE CALCULATED ASSUMING A* *
* *CONSTANT INDOOR SPACE TEMPERATURE* *

****

*** BUILDING ***

FLOOR AREA	2027 SQFT	188	M2
VOLUME	16216 CUFT	459	M3

	COOLING LOAD		HEATING LOAD	
TIME	AUG 8 5PM		FEB 19 7AM	
DRY-BULB TEMP	86 F	30 C	23 F	-5 C
WET-BULB TEMP	65 F	18 C	22 F	-6 C
TOT HORIZONTAL SOLAR RAD	193 BTU/H.SQFT	608 W/M2	0 BTU/H.SQFT	0 W/M2
WINDSPEED AT SPACE	5.8 KTS	3.0 M/S	6.4 KTS	3.3 M/S
CLOUD AMOUNT 0(CLEAR)-10	0		3	

	SENSIBLE		LATENT		SENSIBLE	
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)
WALL CONDUCTION	3.078	0.902	0.000	0.000	-5.974	-1.750
ROOF CONDUCTION	4.257	1.247	0.000	0.000	-3.409	-0.999
WINDOW GLASS+FRM COND	1.087	0.318	0.000	0.000	-7.403	-2.169
WINDOW GLASS SOLAR	11.012	3.226	0.000	0.000	1.258	0.368
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURF COND	-1.331	-0.390	0.000	0.000	-2.715	-0.796
OCCUPANTS TO SPACE	0.189	0.055	0.000	0.000	0.550	0.161
LIGHT TO SPACE	3.719	1.090	0.000	0.000	0.778	0.228
EQUIPMENT TO SPACE	5.570	1.632	0.000	0.000	0.834	0.244
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	27.580	8.081	0.000	0.000	-16.083	-4.712
TOTAL / AREA	0.014	0.043	0.000	0.000	-0.008	-0.025
TOTAL LOAD	27.580 KBTU/H	8.081 KW			-16.083 KBTU/H	-4.712 KW
TOTAL LOAD / AREA	13.61 BTU/H.SQFT	42.913 W/M2			7.934 BTU/H.SQFT	25.023 W/M2

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*                                                               *
*  NOTE  1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR      *
*  ----    LOADS                                                *
*        2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION        *
*          IN CONSIDERATION                                     *
*        3)THE ABOVE LOADS ARE CALCULATED ASSUMING A            *
*          CONSTANT INDOOR SPACE TEMPERATURE                    *
*                                                               *
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	- - - - - - - - C O O L I N G - - - - - - - -						- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.35552	20	14	44.F	40.F	10.137	-3.989	15	7	26.F	24.F	-14.592	1080.	3.117
FEB	1.06670	27	16	67.F	54.F	18.053	-2.890	19	7	23.F	22.F	-16.083	964.	3.117
MAR	2.18427	14	15	61.F	51.F	20.170	-2.123	1	7	31.F	29.F	-12.224	1076.	3.117
APR	3.57109	26	16	76.F	58.F	22.292	-1.194	18	6	38.F	37.F	-10.344	1062.	3.117
MAY	4.91694	15	15	74.F	55.F	24.822	-0.687	18	8	43.F	42.F	-7.643	1076.	3.117
JUN	5.93616	28	15	79.F	60.F	24.921	-0.201	14	6	50.F	48.F	-5.010	1041.	3.117
JUL	7.24724	24	15	87.F	66.F	27.508	-0.058	5	6	54.F	48.F	-3.036	1080.	3.117
AUG	7.34158	8	16	86.F	65.F	27.580	-0.071	18	6	53.F	52.F	-4.051	1076.	3.117
SEP	5.26235	13	16	75.F	62.F	25.535	-0.313	27	6	47.F	47.F	-6.937	1041.	3.117
OCT	3.02216	4	15	71.F	53.F	23.021	-1.043	16	6	44.F	42.F	-8.056	1080.	3.117
NOV	1.04237	4	15	70.F	61.F	20.214	-2.387	24	7	34.F	34.F	-12.109	996.	3.117
DEC	0.57709	5	15	50.F	45.F	11.517	-3.633	26	7	29.F	29.F	-14.162	1080.	3.117
TOTAL	42.523						-18.590						12650.	
MAX						27.580						-16.083		3.117

REPORT- LS-E SPACE MONTHLY LOAD COMPONENTS IN MBTU FOR 1-Tenant 2 Train WEATHER FILE- SEATTLE SEATTLE-T WA

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
	HEATNG	-2.349	-1.319	0.000	-1.509	0.000	-2.999	1.021	0.744	1.033	1.387	0.000	-3.989
JAN	SEN CL	-0.399	-0.195	0.000	-0.362	0.000	-0.654	0.676	0.036	0.495	0.758	0.000	0.356
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-1.729	-0.964	0.000	-1.254	0.000	-2.248	1.110	0.649	0.678	0.867	0.000	-2.890
FEB	SEN CL	-0.440	-0.177	0.000	-0.570	0.000	-0.844	1.293	0.060	0.692	1.053	0.000	1.067
	LAT CL					0.000			0.035		0.000	0.000	0.035
	HEATNG	-1.353	-0.745	0.000	-1.153	0.000	-1.804	1.094	0.657	0.536	0.645	0.000	-2.123
MAR	SEN CL	-0.512	-0.071	0.000	-0.880	0.000	-1.131	2.169	0.118	0.993	1.498	0.000	2.184
	LAT CL					0.000			0.184		0.000	0.000	0.184
	HEATNG	-0.866	-0.464	0.000	-0.788	0.000	-1.182	0.895	0.500	0.332	0.378	0.000	-1.194
APR	SEN CL	-0.422	0.137	0.000	-1.110	0.000	-1.191	3.002	0.239	1.177	1.737	0.000	3.571
	LAT CL					0.000			0.656		0.000	0.000	0.656
	HEATNG	-0.613	-0.319	0.000	-0.546	0.000	-0.843	0.721	0.408	0.238	0.268	0.000	-0.687
MAY	SEN CL	-0.294	0.396	0.000	-1.131	0.000	-1.179	3.591	0.368	1.292	1.875	0.000	4.917
	LAT CL					0.000			1.173		0.000	0.000	1.173
	HEATNG	-0.264	-0.141	0.000	-0.240	0.000	-0.376	0.378	0.208	0.111	0.123	0.000	-0.201
JUN	SEN CL	-0.166	0.503	0.000	-1.109	0.000	-1.102	3.945	0.546	1.368	1.951	0.000	5.936
	LAT CL					0.000			1.864		0.000	0.000	1.864
	HEATNG	-0.117	-0.062	0.000	-0.103	0.000	-0.166	0.186	0.088	0.055	0.062	0.000	-0.058
JUL	SEN CL	0.031	0.670	0.000	-1.044	0.000	-0.957	4.288	0.690	1.480	2.089	0.000	7.247
	LAT CL					0.000			2.406		0.000	0.000	2.406
	HEATNG	-0.107	-0.061	0.000	-0.083	0.000	-0.152	0.142	0.085	0.050	0.056	0.000	-0.071
AUG	SEN CL	0.142	0.522	0.000	-0.908	0.000	-0.755	4.077	0.688	1.484	2.091	0.000	7.342
	LAT CL					0.000			2.398		0.000	0.000	2.398
	HEATNG	-0.349	-0.214	0.000	-0.221	0.000	-0.475	0.346	0.260	0.158	0.181	0.000	-0.313
SEP	SEN CL	-0.164	0.202	0.000	-0.725	0.000	-1.095	3.343	0.496	1.316	1.888	0.000	5.262
	LAT CL					0.000			1.689		0.000	0.000	1.689
	HEATNG	-0.868	-0.504	0.000	-0.478	0.000	-1.147	0.654	0.533	0.355	0.412	0.000	-1.043
OCT	SEN CL	-0.549	-0.187	0.000	-0.626	0.000	-1.186	2.407	0.245	1.179	1.738	0.000	3.022
	LAT CL					0.000			0.691		0.000	0.000	0.691
	HEATNG	-1.585	-0.896	0.000	-0.873	0.000	-2.035	0.761	0.696	0.682	0.864	0.000	-2.387
NOV	SEN CL	-0.459	-0.209	0.000	-0.426	0.000	-0.815	1.002	0.085	0.740	1.125	0.000	1.042
	LAT CL					0.000			0.114		0.000	0.000	0.114
	HEATNG	-2.275	-1.309	0.000	-1.313	0.000	-2.878	0.922	0.744	1.056	1.421	0.000	-3.633
DEC	SEN CL	-0.324	-0.181	0.000	-0.304	0.000	-0.593	0.746	0.036	0.473	0.725	0.000	0.577
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-12.474	-7.000	0.000	-8.560	0.000	-16.305	8.230	5.573	5.283	6.663	0.000	-18.590
TOT	SEN CL	-3.555	1.410	0.000	-9.194	0.000	-11.502	30.540	3.607	12.689	18.529	0.000	42.523
	LAT CL					0.000			11.209		0.000	0.000	11.209

REPORT- LS-F BUILDING MONTHLY LOAD COMPONENTS IN MBTU WEATHER FILE- SEATTLE SEATTLE-T WA

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
	HEATNG	-2.349	-1.319	0.000	-1.509	0.000	-2.999	1.021	0.744	1.033	1.387	0.000	-3.989
JAN	SEN CL	-0.399	-0.195	0.000	-0.362	0.000	-0.654	0.676	0.036	0.495	0.758	0.000	0.356
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-1.729	-0.964	0.000	-1.254	0.000	-2.248	1.110	0.649	0.678	0.867	0.000	-2.890
FEB	SEN CL	-0.440	-0.177	0.000	-0.570	0.000	-0.844	1.293	0.060	0.692	1.053	0.000	1.067
	LAT CL					0.000			0.035		0.000	0.000	0.035
	HEATNG	-1.353	-0.745	0.000	-1.153	0.000	-1.804	1.094	0.657	0.536	0.645	0.000	-2.123
MAR	SEN CL	-0.512	-0.071	0.000	-0.880	0.000	-1.131	2.169	0.118	0.993	1.498	0.000	2.184
	LAT CL					0.000			0.184		0.000	0.000	0.184
	HEATNG	-0.866	-0.464	0.000	-0.788	0.000	-1.182	0.895	0.500	0.332	0.378	0.000	-1.194
APR	SEN CL	-0.422	0.137	0.000	-1.110	0.000	-1.191	3.002	0.239	1.177	1.737	0.000	3.571
	LAT CL					0.000			0.656		0.000	0.000	0.656
	HEATNG	-0.613	-0.319	0.000	-0.546	0.000	-0.843	0.721	0.408	0.238	0.268	0.000	-0.687
MAY	SEN CL	-0.294	0.396	0.000	-1.131	0.000	-1.179	3.591	0.368	1.292	1.875	0.000	4.917
	LAT CL					0.000			1.173		0.000	0.000	1.173
	HEATNG	-0.264	-0.141	0.000	-0.240	0.000	-0.376	0.378	0.208	0.111	0.123	0.000	-0.201
JUN	SEN CL	-0.166	0.503	0.000	-1.109	0.000	-1.102	3.945	0.546	1.368	1.951	0.000	5.936
	LAT CL					0.000			1.864		0.000	0.000	1.864
	HEATNG	-0.117	-0.062	0.000	-0.103	0.000	-0.166	0.186	0.088	0.055	0.062	0.000	-0.058
JUL	SEN CL	0.031	0.670	0.000	-1.044	0.000	-0.957	4.288	0.690	1.480	2.089	0.000	7.247
	LAT CL					0.000			2.406		0.000	0.000	2.406
	HEATNG	-0.107	-0.061	0.000	-0.083	0.000	-0.152	0.142	0.085	0.050	0.056	0.000	-0.071
AUG	SEN CL	0.142	0.522	0.000	-0.908	0.000	-0.755	4.077	0.688	1.484	2.091	0.000	7.342
	LAT CL					0.000			2.398		0.000	0.000	2.398
	HEATNG	-0.349	-0.214	0.000	-0.221	0.000	-0.475	0.346	0.260	0.158	0.181	0.000	-0.313
SEP	SEN CL	-0.164	0.202	0.000	-0.725	0.000	-1.095	3.343	0.496	1.316	1.888	0.000	5.262
	LAT CL					0.000			1.689		0.000	0.000	1.689
	HEATNG	-0.868	-0.504	0.000	-0.478	0.000	-1.147	0.654	0.533	0.355	0.412	0.000	-1.043
OCT	SEN CL	-0.549	-0.187	0.000	-0.626	0.000	-1.186	2.407	0.245	1.179	1.738	0.000	3.022
	LAT CL					0.000			0.691		0.000	0.000	0.691
	HEATNG	-1.585	-0.896	0.000	-0.873	0.000	-2.035	0.761	0.696	0.682	0.864	0.000	-2.387
NOV	SEN CL	-0.459	-0.209	0.000	-0.426	0.000	-0.815	1.002	0.085	0.740	1.125	0.000	1.042
	LAT CL					0.000			0.114		0.000	0.000	0.114
	HEATNG	-2.275	-1.309	0.000	-1.313	0.000	-2.878	0.922	0.744	1.056	1.421	0.000	-3.633
DEC	SEN CL	-0.324	-0.181	0.000	-0.304	0.000	-0.593	0.746	0.036	0.473	0.725	0.000	0.577
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-12.474	-7.000	0.000	-8.560	0.000	-16.305	8.230	5.573	5.283	6.663	0.000	-18.590
TOT	SEN CL	-3.555	1.410	0.000	-9.194	0.000	-11.502	30.540	3.607	12.689	18.529	0.000	42.523
	LAT CL					0.000			11.209		0.000	0.000	11.209

SPACE 1-Tenant 2 Train

	- - - - L I G H T I N G - - - -		E Q U I P M E N T - - - - - - - - - -	P R O C E S S - - - - - - - - -		
MONTH	TASK LIGHTING (KWH)	TOTAL LIGHTING (KWH)	GENERAL EQUIPMENT (KWH)	PROCESS ELECTRIC (KWH)	PROCESS GAS (MBTU)	PROCESS HOT WATER (MBTU)
JAN	0.00	449.69	630.29	0.00	0.0000	0.0000
FEB	0.00	401.35	562.49	0.00	0.0000	0.0000
MAR	0.00	447.86	627.66	0.00	0.0000	0.0000
APR	0.00	442.09	619.65	0.00	0.0000	0.0000
MAY	0.00	447.86	627.66	0.00	0.0000	0.0000
JUN	0.00	433.57	607.69	0.00	0.0000	0.0000
JUL	0.00	449.69	630.29	0.00	0.0000	0.0000
AUG	0.00	447.86	627.66	0.00	0.0000	0.0000
SEP	0.00	433.57	607.69	0.00	0.0000	0.0000
OCT	0.00	449.69	630.29	0.00	0.0000	0.0000
NOV	0.00	414.72	581.14	0.00	0.0000	0.0000
DEC	0.00	449.69	630.29	0.00	0.0000	0.0000
ANNUAL	0.00	5267.47	7382.86	0.00	0.0000	0.0000

BUILDING

	- - - - L I G H T I N G - - - -		E Q U I P M E N T - - - - - - - - - -	P R O C E S S - - - - - - - - -		
MONTH	TASK LIGHTING (KWH)	TOTAL LIGHTING (KWH)	GENERAL EQUIPMENT (KWH)	PROCESS ELECTRIC (KWH)	PROCESS GAS (MBTU)	PROCESS HOT WATER (MBTU)
JAN	0.00	449.69	630.29	0.00	0.0000	0.0000
FEB	0.00	401.35	562.49	0.00	0.0000	0.0000
MAR	0.00	447.86	627.66	0.00	0.0000	0.0000
APR	0.00	442.09	619.65	0.00	0.0000	0.0000
MAY	0.00	447.86	627.66	0.00	0.0000	0.0000
JUN	0.00	433.57	607.69	0.00	0.0000	0.0000
JUL	0.00	449.69	630.29	0.00	0.0000	0.0000
AUG	0.00	447.86	627.66	0.00	0.0000	0.0000
SEP	0.00	433.57	607.69	0.00	0.0000	0.0000
OCT	0.00	449.69	630.29	0.00	0.0000	0.0000
NOV	0.00	414.72	581.14	0.00	0.0000	0.0000
DEC	0.00	449.69	630.29	0.00	0.0000	0.0000
ANNUAL	0.00	5267.47	7382.86	0.00	0.0000	0.0000

Proposed Building (ASHRAE 90.1 Appendix East Town Crossing Lot 1 Tenant 2 DOE-2.1E-124 Tue Jun 3 14:28:18 2025LDL RUN 1

REPORT- LS-L MANAGEMENT AND SOLAR SUMMARY FOR SPACE 1-Tenant 2 Train WEATHER FILE- SEATTLE SEATTLE-T WA

DATA FOR SPACE 1-Tenant 2 Train

MONTH	NUMBER OF HOURS MANAGEMENT WOULD BE EMPLOYED	AVERAGE DAILY SOLAR RADIATION INTO SPACE (BTU/DAY)	MAXIMUM HOURLY SOLAR RADIATION INTO SPACE (BTU/HR)
JAN	46.	54911.020	21635.396
FEB	69.	86294.891	23156.666
MAR	83.	105005.992	23580.441
APR	112.	130172.859	21967.504
MAY	84.	139829.500	23595.375
JUN	98.	143858.469	19728.791
JUL	117.	144462.406	21564.109
AUG	140.	135585.109	21720.982
SEP	130.	123047.297	21670.953
OCT	100.	98056.539	22577.377
NOV	39.	58642.195	21784.701
DEC	53.	53923.891	21051.492
ANNUAL	1071.	106227.133	23595.375

MESSAGE LIST FROM SYSTEMS PROGRAM

0 **WARNING**********
A HEATING CAPACITY OF -59102. IS INCONSISTENT WITH A COOLING CAPACITY OF 72678. IN SYSTEM SYSTEM-1

REPORT- SV-A SYSTEM DESIGN PARAMETERS SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
SYSTEM-1	PSZ	1.000	2027.0	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)	HEAT PUMP SUPP-HEAT (KBTU/HR)
2464.	0.862	1.1	0.	0.000	0.0	0.122	72.678	0.838	-59.102	0.25	0.26	-106.495

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
1-Tenant 2 Train	2464.	0.	0.000	1.000	300.	0.00	0.00	49.97	0.00	-94.05	1.0

REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000				0.000	0.000				0.000	2330.	7.540
FEB	0.00000				0.000	0.000				0.000	1900.	7.892
MAR	0.00000				0.000	0.000				0.000	1761.	6.383
APR	0.00000				0.000	0.000				0.000	1617.	5.586
MAY	0.00000				0.000	0.000				0.000	1620.	5.833
JUN	0.00000				0.000	0.000				0.000	1600.	6.036
JUL	0.00000				0.000	0.000				0.000	1781.	6.712
AUG	0.00000				0.000	0.000				0.000	1857.	6.748
SEP	0.00000				0.000	0.000				0.000	1591.	6.448
OCT	0.00000				0.000	0.000				0.000	1618.	5.105
NOV	0.00000				0.000	0.000				0.000	1805.	6.583
DEC	0.00000				0.000	0.000				0.000	2193.	7.837
TOTAL	0.000					0.000					21673.	
MAX					0.000					0.000		7.892

MAXIMUM DAILY INTEGRATED COOLING LOAD (DES DAY) 0.000 (KBTU)
MAXIMUM DAILY INTEGRATED COOLING LOAD (WTH FILE) 0.000 (KBTU)

REPORT- SS-E PLANT MONTHLY LOAD HOURS FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - - - - - - - - - - - N U M B E R O F H O U R S - - - - - - - - - - - - - - - - - -										--COINCIDENT LOADS--	
MONTH	HOURS COOLING LOAD	HOURS HEATING LOAD	HOURS COINCIDENT COOL-HEAT LOAD	HOURS FLOATING	HOURS HEATING AVAIL.	HOURS COOLING AVAIL.	HOURS FANS ON	HOURS FANS CYCLE ON	HOURS NIGHT VENTING	HOURS FLOATING WHEN FANS ON	HEATING LOAD AT COOLING PEAK (KBTU/HR)	ELECTRIC LOAD AT COOLING PEAK (KW)
JAN	0	433	0	311	744	744	439	0	0	6	0.000	0.217
FEB	0	308	0	364	672	672	394	0	0	86	0.000	0.217
MAR	0	208	0	536	744	744	440	0	0	232	0.000	0.217
APR	27	69	0	624	720	720	430	0	0	334	0.000	0.197
MAY	62	27	0	655	744	744	440	0	0	351	0.000	0.231
JUN	110	7	0	603	720	720	424	0	0	307	0.000	0.197
JUL	196	4	0	544	744	744	439	0	0	239	0.000	0.197
AUG	219	7	0	518	744	744	440	0	0	214	0.000	0.212
SEP	80	12	0	628	720	720	424	0	0	332	0.000	0.197
OCT	6	82	0	656	744	744	439	0	0	351	0.000	0.217
NOV	2	302	0	416	720	720	413	0	0	109	0.000	0.207
DEC	0	404	0	340	744	744	439	0	0	35	0.000	0.217
ANNUAL	702	1863	0	6195	8760	8760	5161	0	0	2596		

REPORT- SS-M FAN ELECTRIC ENERGY FOR PLANT PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	FAN ELECTRIC ENERGY DURING HEATING (KWH)	FAN ELECTRIC ENERGY DURING COOLING (KWH)	FAN ELECTRIC ENERGY DURING HEATING-COOLING (KWH)	FAN ELECTRIC ENERGY DURING FLOATING (KWH)
JAN	373.418	0.000	0.000	5.174
FEB	265.618	0.000	0.000	74.166
MAR	179.379	0.000	0.000	200.076
APR	59.506	23.285	0.000	288.041
MAY	23.285	53.469	0.000	302.701
JUN	6.037	94.864	0.000	264.756
JUL	3.450	169.030	0.000	206.113
AUG	6.037	188.865	0.000	184.553
SEP	10.349	68.992	0.000	286.316
OCT	70.717	5.174	0.000	302.701
NOV	260.444	1.725	0.000	94.001
DEC	348.408	0.000	0.000	30.184
ANNUAL	1606.683	605.406	0.000	2238.815

REPORT- SS-P LOAD, ENERGY AND PART LOAD DHW TANK OPERATION FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

TANK SIZE is 30.0 (GAL) HEATER CAP = 17.516 (KBTU/HR) FLOW RATE = 0.042 (GAL/MIN) PUMP = 0.000 (KW)

MONTH		UNIT LOAD (MBTU) (KBTU/HR)	ENERGY USE (KWH) (KW)	RCV EN USE (KWH) (KW)	PUMP ENERGY (KWH) (KW)	Number of hours within each PART LOAD range 00-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100+	TOTAL RUN HOURS
JAN	SUM	0.289	96.082	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	31/13	31/13	31/24	31/24												
FEB	SUM	0.259	86.355	0.000	0.000	672	0	0	0	0	0	0	0	0	0	0	672
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	28/13	28/13	28/24	28/24												
MAR	SUM	0.289	96.219	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	31/13	31/13	31/24	31/24												
APR	SUM	0.282	93.834	0.000	0.000	720	0	0	0	0	0	0	0	0	0	0	720
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	30/13	30/13	30/ 1	30/ 1												
MAY	SUM	0.289	96.219	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	30/13	30/13	31/ 1	31/ 1												
JUN	SUM	0.279	92.840	0.000	0.000	720	0	0	0	0	0	0	0	0	0	0	720
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	30/13	30/13	30/ 1	30/ 1												
JUL	SUM	0.289	96.082	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	31/13	31/13	31/ 1	31/ 1												
AUG	SUM	0.289	96.219	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	29/13	29/13	31/ 1	31/ 1												
SEP	SUM	0.279	92.840	0.000	0.000	720	0	0	0	0	0	0	0	0	0	0	720
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	30/13	30/13	30/ 1	30/ 1												
OCT	SUM	0.289	96.082	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	31/13	31/13	31/24	31/24												
NOV	SUM	0.273	90.988	0.000	0.000	720	0	0	0	0	0	0	0	0	0	0	720
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	28/13	28/13	30/24	30/24												
DEC	SUM	0.289	96.082	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	0.304	0.000	0.000												
	DAY/HR	31/13	31/13	31/24	31/24												
YR	SUM	3.394	1129.838	0.000	0.000	8760	0	0	0	0	0	0	0	0	0	0	8760
	PEAK	0.912	0.304	0.000	0.000												
	MON/DAY	12/31	12/31	12/31	12/31												

REPORT- SS-Q HEAT PUMP COOLING SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)		INDOOR FAN ENERGY (MBTU)
JAN	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
FEB	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.127
MAR	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.341
APR	7.	0.340	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.571
MAY	17.	0.804	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.699
JUN	30.	1.445	0.330	0.000	0.000	0.000	0.000	0.000	0.000	0.776
JUL	60.	3.400	0.766	0.000	0.000	0.000	0.000	0.000	0.000	0.929
AUG	73.	4.555	1.033	0.000	0.000	0.000	0.000	0.000	0.000	0.960
SEP	24.	1.343	0.291	0.000	0.000	0.000	0.000	0.000	0.000	0.724
OCT	2.	0.048	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.534
NOV	0.	0.005	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.166
DEC	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052
0ANNUAL	214.	11.940	2.696	0.000	0.000	0.000	0.000	0.000	0.000	5.887

0CSPF (WITH PARASITICS) = 1.39 (KBTU/HR)
0CSPF (WITHOUT PARASITICS) = 4.43 (BTU/BTU)

REPORT- SS-Q HEAT PUMP HEATING SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)	DEFROST LOAD (MBTU)	INDOOR FAN ENERGY (MBTU)
JAN	139.	-5.754	2.611	0.000	-0.035	0.035	0.000	0.000	0.000	1.283
FEB	86.	-3.537	1.710	0.000	-0.029	0.029	0.000	0.000	0.000	1.033
MAR	31.	-1.574	0.717	0.000	0.000	0.000	0.000	0.000	0.000	0.954
APR	9.	-0.467	0.227	0.000	0.000	0.000	0.000	0.000	0.000	0.695
MAY	1.	-0.077	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.596
JUN	0.	-0.005	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.472
JUL	0.	-0.003	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.364
AUG	0.	-0.006	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.336
SEP	0.	-0.018	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.524
OCT	7.	-0.407	0.204	0.000	0.000	0.000	0.000	0.000	0.000	0.758
NOV	59.	-2.760	1.236	0.000	0.000	0.000	0.000	0.000	0.000	1.049
DEC	115.	-4.944	2.165	0.000	-0.013	0.013	0.000	0.000	0.000	1.241
0ANNUAL	448.	-19.552	8.972	0.000	-0.077	0.077	0.000	0.000	0.000	9.304

0HSPF (WITH PARASITICS) = 1.58 (KBTU/HR)
0HSPF (WITHOUT PARASITICS) = 2.17 (BTU/BTU)

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -						- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000					0.000	-5.790	6	7	28.F	28.F	-35.795	2234.	7.383
FEB	0.00000					0.000	-3.566	18	7	28.F	27.F	-38.878	1813.	7.872
MAR	0.00000					0.000	-1.574	24	7	36.F	29.F	-24.503	1665.	6.226
APR	0.34032	27	16	81.F	63.F	23.835	-0.467	18	7	38.F	37.F	-19.659	1523.	5.351
MAY	0.80405	15	17	75.F	55.F	25.406	-0.077	18	10	45.F	43.F	-10.362	1524.	5.587
JUN	1.44471	28	16	79.F	60.F	27.671	-0.005	29	9	54.F	52.F	-1.034	1507.	5.801
JUL	3.39987	24	16	87.F	66.F	34.870	-0.003	10	7	55.F	53.F	-1.158	1685.	6.491
AUG	4.55484	29	15	85.F	68.F	34.390	-0.006	6	7	53.F	52.F	-1.007	1761.	6.523
SEP	1.34316	15	17	75.F	64.F	37.926	-0.018	27	8	48.F	47.F	-4.519	1498.	6.223
OCT	0.04824	4	16	71.F	53.F	12.701	-0.407	28	8	46.F	44.F	-12.559	1522.	4.870
NOV	0.00480	4	15	70.F	61.F	3.122	-2.760	24	7	34.F	34.F	-29.909	1714.	6.426
DEC	0.00000					0.000	-4.957	26	7	29.F	29.F	-36.673	2097.	7.680
TOTAL	11.940						-19.629						20543.	
MAX						37.926						-38.878		7.872

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- -Z O N E C O O L I N G- -		- -Z O N E H E A T I N G -		- - B A S E B O A R D S - -		--PREHEAT OR FURN FAN ELEC--	
MONTH	COOLING BY ZONE COILS OR NAT VENTIL (MBTU)	MAXIMUM COOLING BY ZONE COILS OR NAT VENTIL (KBTU/HR)	HEATING BY ZONE COILS OR FURNACE (MBTU)	MAXIMUM HEATING BY ZONE COILS OR FURNACE (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING ENERGY (KBTU/HR)	PREHEAT COIL ENERGY OR ELEC FOR FURN FAN (MBTU)	MAXIMUM PREHEAT COIL ENERGY OR ELEC FOR FURN FAN (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
0TOTAL	0.000		0.000		0.000		0.000	
0MAX		0.000		0.000		0.000		0.000

REPORT- SS-C SYSTEM MONTHLY LOAD HOURS FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - - - - - - - - - - - N U M B E R O F H O U R S - - - - - - - - - - - - - - - - - -										--COINCIDENT LOADS--	
MONTH	HOURS COOLING LOAD	HOURS HEATING LOAD	HOURS COINCIDENT COOL-HEAT LOAD	HOURS FLOATING	HOURS HEATING AVAIL.	HOURS COOLING AVAIL.	HOURS FANS ON	HOURS FANS CYCLE ON	HOURS NIGHT VENTING	HOURS FLOATING WHEN FANS ON	HEATING LOAD AT COOLING PEAK (KBTU/HR)	ELECTRIC LOAD AT COOLING PEAK (KW)
JAN	0	433	0	311	744	744	439	0	0	6	0.000	0.177
FEB	0	308	0	364	672	672	394	0	0	86	0.000	0.177
MAR	0	208	0	536	744	744	440	0	0	232	0.000	0.177
APR	27	69	0	624	720	720	430	0	0	334	0.000	4.546
MAY	62	27	0	655	744	744	440	0	0	351	0.000	5.587
JUN	110	7	0	603	720	720	424	0	0	307	0.000	5.801
JUL	196	4	0	544	744	744	439	0	0	239	0.000	6.491
AUG	219	7	0	518	744	744	440	0	0	214	0.000	6.373
SEP	80	12	0	628	720	720	424	0	0	332	0.000	6.223
OCT	6	82	0	656	744	744	439	0	0	351	0.000	4.870
NOV	2	302	0	416	720	720	413	0	0	109	0.000	4.192
DEC	0	404	0	340	744	744	439	0	0	35	0.000	0.177
ANNUAL	702	1863	0	6195	8760	8760	5161	0	0	2596		

REPORT- SS-H SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- -F A N E L E C- - -		- -F U E L H E A T- -		- -F U E L C O O L- -		-E L E C H E A T- -		-E L E C C O O L- -	
MONTH	FAN ENERGY (KWH)	MAXIMUM FAN LOAD (KW)	GAS OIL ENERGY (MBTU)	MAXIMUM GAS OIL LOAD (KBTU/HR)	GAS OIL ENERGY (MBTU)	MAXIMUM GAS OIL LOAD (KBTU/HR)	ELECTRIC ENERGY (KWH)	MAXIMUM ELECTRIC LOAD (KW)	ELECTRIC ENERGY (KWH)	MAXIMUM ELECTRIC LOAD (KW)
JAN	379.	0.862	0.000	0.000	0.000	0.000	775.	5.975	0.	0.000
FEB	340.	0.862	0.000	0.000	0.000	0.000	510.	6.833	0.	0.000
MAR	379.	0.862	0.000	0.000	0.000	0.000	210.	3.104	0.	0.000
APR	371.	0.862	0.000	0.000	0.000	0.000	66.	2.849	24.	1.632
MAY	379.	0.862	0.000	0.000	0.000	0.000	16.	1.113	53.	1.608
JUN	366.	0.862	0.000	0.000	0.000	0.000	3.	0.474	97.	1.822
JUL	379.	0.862	0.000	0.000	0.000	0.000	2.	0.483	224.	2.513
AUG	379.	0.862	0.000	0.000	0.000	0.000	3.	0.485	303.	2.544
SEP	366.	0.862	0.000	0.000	0.000	0.000	6.	0.697	85.	2.244
OCT	379.	0.862	0.000	0.000	0.000	0.000	60.	1.254	3.	0.891
NOV	356.	0.862	0.000	0.000	0.000	0.000	362.	4.078	0.	0.214
DEC	379.	0.862	0.000	0.000	0.000	0.000	638.	6.317	0.	0.000
0TOTAL	4451.		0.000		0.000		2652.		790.	
0MAX		0.862		0.000		0.000		6.833		2.544

REPORT- SS-I SYSTEM MONTHLY SENSIBLE LATENT SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	SENSIBLE COOLING ENERGY (MBTU)	LATENT COOLING ENERGY (MBTU)	MAX TOTAL COOLING ENERGY (KBTU/HR)	SENSIBLE HEAT RATIO AT MAX	TIME OF MAX DY	TIME OF MAX HR	SENSIBLE HEATING ENERGY (MBTU)	LATENT HEATING ENERGY (MBTU)	MAX TOTAL HEATING ENERGY (KBTU/HR)
JAN	0.00000	0.00000	0.000				-5.78960	0.00000	-35.79513
FEB	0.00000	0.00000	0.000				-3.56639	0.00000	-38.87831
MAR	0.00000	0.00000	0.000				-1.57360	0.00000	-24.50328
APR	0.33589	0.00442	23.835	0.971	27	16	-0.46693	0.00000	-19.659
MAY	0.73951	0.06454	25.406	1.000	15	17	-0.07747	0.00000	-10.362
JUN	1.41508	0.02963	27.671	1.000	28	16	-0.00453	0.00000	-1.034
JUL	3.09838	0.30149	34.870	0.960	24	16	-0.00252	0.00000	-1.158
AUG	4.15002	0.40482	34.390	0.891	29	15	-0.00603	0.00000	-1.007
SEP	1.13876	0.20440	37.926	0.731	15	17	-0.01839	0.00000	-4.519
OCT	0.04824	0.00000	12.701	1.000	4	16	-0.40724	0.00000	-12.559
NOV	0.00365	0.00115	3.122	0.762	4	15	-2.75962	0.00000	-29.909
DEC	0.00000	0.00000	0.000				-4.95692	0.00000	-36.67274
TOTAL	10.930	1.010					-19.629	0.000	
MAX			37.926	0.731					-38.878

REPORT- SS-J SYSTEM PEAK HEATING AND COOLING DAYS FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - C O O L I N G - - - - -				- - - H E A T I N G - - -			D A Y C O O L I N G P E A K			
	SEP 15				FEB 18			JUL 24			
HOUR	HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP	HOURLY HEATING LOAD (KBTU)	DRY-BULB TEMP	WET-BULB TEMP	HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP
1	0.000	0.000	59.F	57.F	0.000	29.F	27.F	0.000	0.000	65.F	57.F
2	0.000	0.000	58.F	56.F	0.000	31.F	29.F	0.000	0.000	63.F	56.F
3	0.000	0.000	55.F	54.F	0.000	31.F	29.F	0.000	0.000	62.F	56.F
4	0.000	0.000	53.F	52.F	0.000	30.F	28.F	0.000	0.000	62.F	56.F
5	0.000	0.000	53.F	52.F	0.000	30.F	28.F	0.000	0.000	60.F	55.F
6	0.000	0.000	52.F	52.F	0.000	29.F	27.F	0.000	0.000	63.F	57.F
7	0.000	0.000	56.F	54.F	-38.878	28.F	27.F	0.000	0.000	66.F	59.F
8	0.000	0.000	57.F	55.F	-35.514	29.F	28.F	9.218	0.786	71.F	61.F
9	0.000	0.000	60.F	57.F	-31.231	31.F	30.F	22.899	0.925	75.F	62.F
10	0.000	0.000	66.F	60.F	-23.302	34.F	32.F	25.980	0.923	76.F	63.F
11	0.000	0.000	65.F	59.F	-18.974	35.F	31.F	28.924	0.940	80.F	64.F
12	16.655	0.771	70.F	61.F	-14.523	37.F	32.F	30.246	0.934	79.F	64.F
13	23.028	0.752	71.F	62.F	-13.158	38.F	32.F	32.318	0.947	83.F	65.F
14	23.785	0.755	71.F	62.F	-10.145	40.F	33.F	33.758	0.964	85.F	65.F
15	29.135	0.790	73.F	62.F	-10.603	38.F	31.F	34.870	0.960	87.F	66.F
16	37.926	0.731	75.F	64.F	-10.865	37.F	31.F	33.548	0.959	84.F	65.F
17	26.738	0.791	73.F	62.F	-12.449	34.F	32.F	31.596	0.973	83.F	64.F
18	14.358	0.815	71.F	61.F	-14.335	31.F	29.F	29.601	0.953	84.F	65.F
19	8.409	0.844	70.F	60.F	-17.037	31.F	29.F	26.714	0.983	82.F	63.F
20	0.000	0.000	65.F	60.F	-18.407	29.F	27.F	22.556	0.942	75.F	62.F
21	0.000	0.000	61.F	58.F	-19.338	29.F	27.F	0.000	0.000	73.F	62.F
22	0.000	0.000	58.F	56.F	0.000	30.F	28.F	0.000	0.000	69.F	60.F
23	0.000	0.000	57.F	55.F	0.000	29.F	27.F	0.000	0.000	67.F	60.F
24	0.000	0.000	56.F	55.F	0.000	28.F	26.F	0.000	0.000	62.F	58.F
SUM								362.227			
MAX	37.926				-38.878						

SYSTEM-TYPE	PSZ	SQFT/TON	641.3
COOLING PEAK	18.71 (BTU/HR- SQFT)	HEATING PEAK	-19.18 (BTU/HR- SQFT)
SUPPLY AIR PEAK FLOW	1.22 (CFM/SQFT)	MIN-OA/PERSON	30.00 (CFM)
OA FRAC AT CLG PEAK	1.000	OA FRAC AT HTG PEAK	0.122

* ASTERISKS INDICATE HOURS LOADS NOT MET

REPORT- SS-K SPACE TEMPERATURE SUMMARY SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	AVERAGE SPACE TEMP					AVERAGE TEMPERATURE DIFFERENCE BETWEEN OUTDOOR& ROOM AIR			SUMMED TEMP DIFFERENCE BETWEEN OUTDOOR& ROOM AIR		
MONTH	ALL HOURS (F)	COOLING HOURS (F)	HEATING HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	ALL HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	HEATING HOURS (F)	ALL HOURS (F)	HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
JAN	69.43		70.68	70.69	67.63	-29.34	-29.74	-28.78	540.13	909.69	-0.00005
FEB	69.95		70.75	71.04	68.40	-27.47	-26.97	-28.18	369.97	769.08	-0.00003
MAR	71.04		70.76	71.68	70.11	-24.05	-22.59	-26.17	217.85	745.68	0.00000
APR	72.65	74.61	70.84	72.86	72.33	-21.11	-18.93	-24.35	72.48	637.41	0.00002
MAY	73.72	74.73	71.50	73.65	73.83	-18.37	-15.42	-22.64	25.10	570.15	0.00005
JUN	74.66	74.77	73.90	74.29	75.19	-14.60	-11.50	-19.05	5.64	440.81	0.00003
JUL	75.16	74.81	73.91	74.53	76.08	-11.37	-7.66	-16.71	2.94	374.71	0.00010
AUG	75.21	74.83	73.72	74.54	76.19	-9.38	-5.68	-14.73	4.96	339.03	0.00037
SEP	74.42	74.83	73.14	74.07	74.92	-15.26	-12.96	-18.56	10.15	458.43	0.00003
OCT	72.49	74.74	70.90	72.63	72.28	-19.92	-18.33	-22.23	76.54	617.66	-0.00001
NOV	70.33	74.45	70.74	71.14	69.25	-23.82	-23.59	-24.12	325.13	714.51	-0.00008
DEC	69.62		70.69	70.76	67.97	-27.87	-27.85	-27.90	476.70	864.01	-0.00004
ANNUAL	72.40	74.80	70.78	72.67	72.02	-20.17	-18.37	-22.76	2127.60	7441.16	0.00003

REPORT- SS-L FAN ELECTRIC ENERGY SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	FAN ELEC DURING HEATING (KWH)	FAN ELEC DURING COOLING (KWH)	FAN ELEC DURING HEAT & COOL (KWH)	FAN ELEC DURING FLOATING (KWH)	Number of hours within each PART LOAD range 00 10	10 20	20 30	30 40	40 50	50 60	60 70	70 80	80 90	90 100	100 +	TOTAL RUN HOURS
JAN	373.418	0.000	0.000	5.174	0	0	0	0	0	0	0	0	0	0	439	439
FEB	265.618	0.000	0.000	74.166	0	0	0	0	0	0	0	0	0	0	394	394
MAR	179.379	0.000	0.000	200.076	0	0	0	0	0	0	0	0	0	0	440	440
APR	59.506	23.285	0.000	288.041	0	0	0	0	0	0	0	0	0	0	430	430
MAY	23.285	53.469	0.000	302.701	0	0	0	0	0	0	0	0	0	0	440	440
JUN	6.037	94.864	0.000	264.756	0	0	0	0	0	0	0	0	0	0	424	424
JUL	3.450	169.030	0.000	206.113	0	0	0	0	0	0	0	0	0	0	439	439
AUG	6.037	188.865	0.000	184.553	0	0	0	0	0	0	0	0	0	0	440	440
SEP	10.349	68.992	0.000	286.316	0	0	0	0	0	0	0	0	0	0	424	424
OCT	70.717	5.174	0.000	302.701	0	0	0	0	0	0	0	0	0	0	439	439
NOV	260.444	1.725	0.000	94.001	0	0	0	0	0	0	0	0	0	0	413	413
DEC	348.408	0.000	0.000	30.184	0	0	0	0	0	0	0	0	0	0	439	439
ANNUAL	1606.683	605.406	0.000	2238.815	0	0	0	0	0	0	0	0	0	0	5161	5161

TOTAL HOURS AT RELATIVE HUMIDITY LEVEL AND TIME OF DAY

HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
90-100	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
80-89	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
70-79	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
60-69	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	5
50-59	0	0	0	0	0	20	29	32	25	25	28	27	26	16	14	13	13	14	16	18	5	0	0	0	321
40-49	0	0	0	0	0	88	100	106	120	117	113	102	101	107	100	95	77	82	84	82	20	2	0	0	1496
30-39	0	0	0	0	0	56	97	116	126	132	132	137	139	141	146	142	127	111	108	119	69	12	0	0	1910
20-29	0	0	0	0	0	6	56	59	71	74	75	85	85	84	85	99	93	76	76	58	49	7	0	0	1138
10-19	0	0	0	0	0	0	21	23	22	15	16	14	13	17	19	15	21	20	20	25	18	2	0	0	281
0-09	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	1	1	1	0	1	2	0	0	0	10

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*  NOTE  1)THE RELATIVE HUMIDITY COUNTS ARE MADE ONLY FOR  *
*          THE HOURS WHEN THE FANS ARE ON                  *
*                                                          *
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REPORT- SS-P LOAD, ENERGY AND PART LOAD HEATING IN SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

UNIT TYPE is PSZ HEATING-CAPACITY = -59.102 (KBTU/HR) HEATING-EIR = 0.260 (BTU/BTU) SUPPLY-FLOW = 2464. (CFM)

MONTH		UNIT LOAD (MBTU) (KBTU/HR)	ENERGY USE (KWH) (KW)	COMPRESSOR (KWH) (KW)	FAN ENERGY (KWH) (KW)		Number of hours within each PART LOAD range 00-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100+	TOTAL RUN HOURS
JAN	SUM	-5.790	775.296	631.322	378.592	CMP	41	127	80	67	39	20	19	18	5	4	13	433
	PEAK	-35.795	5.975	3.498	0.862	FAN	0	0	0	0	0	0	0	0	0	0	433	433
	DAY/HR	6/ 7	6/ 7	16/ 7	31/21													
FEB	SUM	-3.566	509.556	402.752	339.784	CMP	75	84	42	30	23	14	16	13	3	4	4	308
	PEAK	-38.878	6.833	3.496	0.862	FAN	0	0	0	0	0	0	0	0	0	0	308	308
	DAY/HR	18/ 7	19/ 7	17/ 9	28/21													
MAR	SUM	-1.574	209.996	195.147	379.455	CMP	92	65	32	9	3	5	2	0	0	0	0	208
	PEAK	-24.503	3.104	2.397	0.862	FAN	0	0	0	0	0	0	0	0	0	0	208	208
	DAY/HR	24/ 7	5/ 8	5/ 8	31/21													
APR	SUM	-0.467	66.411	61.461	370.831	CMP	34	22	7	0	3	3	0	0	0	0	0	69
	PEAK	-19.659	2.849	2.142	0.862	FAN	0	0	0	0	0	0	0	0	0	0	69	69
	DAY/HR	18/ 7	18/ 7	18/ 7	30/21													
MAY	SUM	-0.077	15.903	15.903	379.455	CMP	22	5	0	0	0	0	0	0	0	0	0	27
	PEAK	-10.362	1.113	1.113	0.862	FAN	0	0	0	0	0	0	0	0	0	0	27	27
	DAY/HR	18/10	18/10	18/10	31/22													
JUN	SUM	-0.005	3.138	3.138	365.656	CMP	7	0	0	0	0	0	0	0	0	0	0	7
	PEAK	-1.034	0.474	0.474	0.862	FAN	0	0	0	0	0	0	0	0	0	0	7	7
	DAY/HR	29/ 9	26/ 7	26/ 7	30/21													
JUL	SUM	-0.003	1.821	1.821	378.592	CMP	4	0	0	0	0	0	0	0	0	0	0	4
	PEAK	-1.158	0.483	0.483	0.862	FAN	0	0	0	0	0	0	0	0	0	0	4	4
	DAY/HR	10/ 7	10/ 7	10/ 7	31/21													
AUG	SUM	-0.006	3.314	3.314	379.455	CMP	7	0	0	0	0	0	0	0	0	0	0	7
	PEAK	-1.007	0.485	0.485	0.862	FAN	0	0	0	0	0	0	0	0	0	0	7	7
	DAY/HR	6/ 7	28/ 7	28/ 7	31/17													
SEP	SUM	-0.018	6.040	6.040	365.656	CMP	12	0	0	0	0	0	0	0	0	0	0	12
	PEAK	-4.519	0.697	0.697	0.862	FAN	0	0	0	0	0	0	0	0	0	0	12	12
	DAY/HR	27/ 8	27/ 8	27/ 8	30/21													
OCT	SUM	-0.407	59.903	59.903	378.592	CMP	51	28	3	0	0	0	0	0	0	0	0	82
	PEAK	-12.559	1.254	1.254	0.862	FAN	0	0	0	0	0	0	0	0	0	0	82	82
	DAY/HR	28/ 8	28/ 8	28/ 8	31/21													
NOV	SUM	-2.760	362.021	328.080	356.170	CMP	97	112	45	16	6	7	9	6	3	1	0	302
	PEAK	-29.909	4.078	3.371	0.862	FAN	0	0	0	0	0	0	0	0	0	0	302	302
	DAY/HR	24/ 7	24/ 7	24/ 7	30/17													
DEC	SUM	-4.957	638.185	549.496	378.592	CMP	49	135	100	34	21	14	14	22	8	4	3	404
	PEAK	-36.673	6.317	3.410	0.862	FAN	0	0	0	0	0	0	0	0	0	0	404	404
	DAY/HR	26/ 7	26/ 7	26/ 9	31/21													
YR	SUM	-19.629	2651.583	2258.375	4450.626	CMP	491	578	309	156	95	63	60	59	19	13	20	1863
	PEAK	-38.878	6.833	3.498	0.862	FAN	0	0	0	0	0	0	0	0	0	0	1863	1863
	MON/DAY	2/18	2/19	1/16	12/31													

REPORT- SS-P LOAD, ENERGY AND PART LOAD COOLING IN SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

UNIT TYPE is PSZ COOLING-CAPACITY = 72.678 (KBTU/HR) COOLING-EIR = 0.245 (BTU/BTU) SUPPLY-FLOW = 2464. (CFM)

MONTH		UNIT LOAD SUM (MBTU) PEAK (KBTU/HR)	ENERGY USE (KWH) (KW)	COMPRESSOR (KWH) (KW)	FAN ENERGY (KWH) (KW)		Number of hours within each PART LOAD range 00-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100+	TOTAL RUN HOURS
JAN	SUM	0.000	0.000	0.000	378.592	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.862	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/24	31/24	0/ 0	31/21													
FEB	SUM	0.000	0.000	0.000	339.784	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.862	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	28/24	28/24	0/ 0	28/21													
MAR	SUM	0.000	0.000	0.000	379.455	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.862	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/24	31/24	0/ 0	31/21													
APR	SUM	0.340	24.009	24.009	370.831	CMP	3	0	24	3	0	0	0	0	0	0	0	30
	PEAK	23.835	1.632	1.632	0.862	FAN	0	0	0	0	0	0	0	0	0	0	27	27
	DAY/HR	27/16	27/16	27/16	30/21													
MAY	SUM	0.804	53.307	53.307	379.455	CMP	0	0	50	12	0	0	0	0	0	0	0	62
	PEAK	25.406	1.608	1.608	0.862	FAN	0	0	0	0	0	0	0	0	0	0	62	62
	DAY/HR	15/17	15/17	15/17	31/22													
JUN	SUM	1.445	96.701	96.701	365.656	CMP	2	0	85	25	0	0	0	0	0	0	0	112
	PEAK	27.671	1.822	1.822	0.862	FAN	0	0	0	0	0	0	0	0	0	0	110	110
	DAY/HR	28/16	28/16	28/16	30/21													
JUL	SUM	3.400	224.449	224.449	378.592	CMP	1	0	112	57	26	1	0	0	0	0	0	197
	PEAK	34.870	2.513	2.513	0.862	FAN	0	0	0	0	0	0	0	0	0	0	196	196
	DAY/HR	24/16	24/16	24/16	31/21													
AUG	SUM	4.555	302.681	302.681	379.455	CMP	1	0	100	59	59	1	0	0	0	0	0	220
	PEAK	34.390	2.544	2.544	0.862	FAN	0	0	0	0	0	0	0	0	0	0	219	219
	DAY/HR	29/15	29/17	29/17	31/17													
SEP	SUM	1.343	85.237	85.237	365.656	CMP	0	0	50	23	7	0	0	0	0	0	0	80
	PEAK	37.926	2.244	2.244	0.862	FAN	0	0	0	0	0	0	0	0	0	0	80	80
	DAY/HR	15/17	15/17	15/17	30/21													
OCT	SUM	0.048	3.357	3.357	378.592	CMP	1	0	6	0	0	0	0	0	0	0	0	7
	PEAK	12.701	0.891	0.891	0.862	FAN	0	0	0	0	0	0	0	0	0	0	6	6
	DAY/HR	4/16	4/16	4/16	31/21													
NOV	SUM	0.005	0.329	0.329	356.170	CMP	0	0	2	0	0	0	0	0	0	0	0	2
	PEAK	3.122	0.214	0.214	0.862	FAN	0	0	0	0	0	0	0	0	0	0	2	2
	DAY/HR	4/15	4/15	4/15	30/17													
DEC	SUM	0.000	0.000	0.000	378.592	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	0.862	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/24	31/24	0/ 0	31/21													
YR	SUM	11.940	790.069	790.069	4450.626	CMP	8	0	429	179	92	2	0	0	0	0	0	710
	PEAK	37.926	2.544	2.544	0.862	FAN	0	0	0	0	0	0	0	0	0	0	702	702
	MON/DAY	9/15	8/29	8/29	12/31													

REPORT- SS-Q HEAT PUMP COOLING SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)		INDOOR FAN ENERGY (MBTU)
JAN	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
FEB	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.127
MAR	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.341
APR	7.	0.340	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.571
MAY	17.	0.804	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.699
JUN	30.	1.445	0.330	0.000	0.000	0.000	0.000	0.000	0.000	0.776
JUL	60.	3.400	0.766	0.000	0.000	0.000	0.000	0.000	0.000	0.929
AUG	73.	4.555	1.033	0.000	0.000	0.000	0.000	0.000	0.000	0.960
SEP	24.	1.343	0.291	0.000	0.000	0.000	0.000	0.000	0.000	0.724
OCT	2.	0.048	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.534
NOV	0.	0.005	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.166
DEC	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052
0ANNUAL	214.	11.940	2.696	0.000	0.000	0.000	0.000	0.000	0.000	5.887

0CSPF (WITH PARASITICS) = 1.39 (KBTU/HR)
0CSPF (WITHOUT PARASITICS) = 4.43 (BTU/BTU)

REPORT- SS-Q HEAT PUMP HEATING SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)	DEFROST LOAD (MBTU)	INDOOR FAN ENERGY (MBTU)
JAN	139.	-5.754	2.611	0.000	-0.035	0.035	0.000	0.000	0.000	1.283
FEB	86.	-3.537	1.710	0.000	-0.029	0.029	0.000	0.000	0.000	1.033
MAR	31.	-1.574	0.717	0.000	0.000	0.000	0.000	0.000	0.000	0.954
APR	9.	-0.467	0.227	0.000	0.000	0.000	0.000	0.000	0.000	0.695
MAY	1.	-0.077	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.596
JUN	0.	-0.005	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.472
JUL	0.	-0.003	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.364
AUG	0.	-0.006	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.336
SEP	0.	-0.018	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.524
OCT	7.	-0.407	0.204	0.000	0.000	0.000	0.000	0.000	0.000	0.758
NOV	59.	-2.760	1.236	0.000	0.000	0.000	0.000	0.000	0.000	1.049
DEC	115.	-4.944	2.165	0.000	-0.013	0.013	0.000	0.000	0.000	1.241
0ANNUAL	448.	-19.552	8.972	0.000	-0.077	0.077	0.000	0.000	0.000	9.304

0HSPF (WITH PARASITICS) = 1.58 (KBTU/HR)
0HSPF (WITHOUT PARASITICS) = 2.17 (BTU/BTU)

	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000				0.000	0.000				0.000	1080.	3.117
FEB	0.00000				0.000	0.000				0.000	964.	3.117
MAR	0.00000				0.000	0.000				0.000	1076.	3.117
APR	0.00000				0.000	0.000				0.000	1062.	3.117
MAY	0.00000				0.000	0.000				0.000	1076.	3.117
JUN	0.00000				0.000	0.000				0.000	1041.	3.117
JUL	0.00000				0.000	0.000				0.000	1080.	3.117
AUG	0.00000				0.000	0.000				0.000	1076.	3.117
SEP	0.00000				0.000	0.000				0.000	1041.	3.117
OCT	0.00000				0.000	0.000				0.000	1080.	3.117
NOV	0.00000				0.000	0.000				0.000	996.	3.117
DEC	0.00000				0.000	0.000				0.000	1080.	3.117
TOTAL	0.000					0.000					12651.	
MAX					0.000					0.000		3.117

REPORT- SS-F ZONE DEMAND SUMMARY IN SYSTEM-1 FOR 1-Tenant 2 Train WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - -D E M A N D S- - - - -		- -B A S E B O A R D S- - -		- -T E M P E R A T U R E S- -		- -L O A D S N O T M E T- -	
MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	0.06986	-2.976	0.00000	0.000	71.6	69.2	0	0
FEB	0.45969	-1.777	0.00000	0.000	74.4	69.5	0	0
MAR	1.10456	-0.659	0.00000	0.000	74.4	69.6	0	0
APR	2.21669	-0.163	0.00000	0.000	74.8	70.0	0	0
MAY	3.66770	-0.018	0.00000	0.000	74.9	70.2	0	0
JUN	4.88279	0.000	0.00000	0.000	75.0	71.3	0	0
JUL	6.13440	0.000	0.00000	0.000	75.2	73.1	0	0
AUG	6.23780	0.000	0.00000	0.000	75.2	72.7	0	0
SEP	4.25963	0.000	0.00000	0.000	75.0	70.7	0	0
OCT	2.08016	-0.139	0.00000	0.000	74.8	70.1	0	0
NOV	0.52066	-1.274	0.00000	0.000	74.5	69.5	0	0
DEC	0.24229	-2.583	0.00000	0.000	72.8	69.4	0	0

TOTAL HOURS AT TEMPERATURE LEVEL AND TIME OF DAY

HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
ABOVE 85	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
80-85	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
75-80	0	0	0	0	0	0	0	0	0	0	0	2	11	16	20	21	9	1	0	0	0	0	0	0	80
70-75	0	0	0	0	0	169	270	337	356	365	365	363	354	349	345	344	323	303	304	304	163	23	0	0	5037
65-70	0	0	0	0	0	1	34	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
60-65	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
BELOW 60	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

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*                                                           *
*  NOTE  1)THE TEMPERATURE COUNTS ARE MADE ONLY FOR         *
*          THE HOURS WHEN THE FANS ARE ON                   *
*                                                           *
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EQUIPMENT	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL
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	SITE ENERGY												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
MONTH	TOTAL HEAT LOAD (MBTU)	TOTAL COOLING LOAD (MBTU)	TOTAL ELECTR LOAD (MWH)	RCVRED ENERGY (MBTU)	WASTED RCVRABL ENERGY (MBTU)	FUEL INPUT COOLING (MBTU)	ELEC INPUT COOLING (MWH)	FUEL INPUT HEATING (MBTU)	ELEC INPUT HEATING (MWH)	FUEL INPUT ELECT (MBTU)	TOTAL FUEL INPUT (MBTU)	TOTAL SITE ENERGY (MBTU)	TOTAL SOURCE ENERGY (MBTU)
JAN	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	8.0	23.9
FEB	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	6.5	19.5
MAR	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	6.0	18.0
APR	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	5.5	16.6
MAY	0.0	0.0	1.6	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	5.5	16.6
JUN	0.0	0.0	1.6	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	5.5	16.4
JUL	0.0	0.0	1.8	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	6.1	18.2
AUG	0.0	0.0	1.9	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	6.3	19.0
SEP	0.0	0.0	1.6	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	5.4	16.3
OCT	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	5.5	16.6
NOV	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	6.2	18.5
DEC	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	7.5	22.5
TOTAL	0.0	0.0	21.7	0.0	0.0	0.0	0.8	0.0	3.8	0.0	0.0	74.0	221.9

MONTH	BTU/UNIT:	ELECTRICITY METER-1 3413./KWH
JAN		
ENERGY CONSUMPTION (UNITS/MO)		2330.0
PEAK DEMAND (UNITS/HR OR DAY)		7.5
	PEAK DAY/HR	6/10
FEB		
ENERGY CONSUMPTION (UNITS/MO)		1899.5
PEAK DEMAND (UNITS/HR OR DAY)		7.9
	PEAK DAY/HR	19/ 7
MAR		
ENERGY CONSUMPTION (UNITS/MO)		1761.2
PEAK DEMAND (UNITS/HR OR DAY)		6.4
	PEAK DAY/HR	5/10
APR		
ENERGY CONSUMPTION (UNITS/MO)		1616.8
PEAK DEMAND (UNITS/HR OR DAY)		5.6
	PEAK DAY/HR	26/16
MAY		
ENERGY CONSUMPTION (UNITS/MO)		1620.4
PEAK DEMAND (UNITS/HR OR DAY)		5.8
	PEAK DAY/HR	6/14
JUN		
ENERGY CONSUMPTION (UNITS/MO)		1599.6
PEAK DEMAND (UNITS/HR OR DAY)		6.0
	PEAK DAY/HR	28/16
JUL		
ENERGY CONSUMPTION (UNITS/MO)		1780.9
PEAK DEMAND (UNITS/HR OR DAY)		6.7
	PEAK DAY/HR	24/16
AUG		
ENERGY CONSUMPTION (UNITS/MO)		1857.2
PEAK DEMAND (UNITS/HR OR DAY)		6.7
	PEAK DAY/HR	29/17
SEP		
ENERGY CONSUMPTION (UNITS/MO)		1591.0
PEAK DEMAND (UNITS/HR OR DAY)		6.4
	PEAK DAY/HR	15/17
OCT		
ENERGY CONSUMPTION (UNITS/MO)		1617.9
PEAK DEMAND (UNITS/HR OR DAY)		5.1
	PEAK DAY/HR	4/16
NOV		
ENERGY CONSUMPTION (UNITS/MO)		1805.4
PEAK DEMAND (UNITS/HR OR DAY)		6.6
	PEAK DAY/HR	13/10
DEC		
ENERGY CONSUMPTION (UNITS/MO)		2192.8
PEAK DEMAND (UNITS/HR OR DAY)		7.8
	PEAK DAY/HR	26/10
TOTAL		
ENERGY CONSUMPTION (UNITS/YR)		21672.9
PEAK DEMAND (UNITS/HR OR DAY)		7.9

REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- SEATTLE SEATTLE-T WA

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO 0 -- 10 -- 20 -- 30 -- 40 -- 50 -- 60 -- 70 -- 80 -- 90 -- 100 - 110+	TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (KWH)	THERMAL USED (MBTU)

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 0. 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- SEATTLE SEATTLE-T WA

ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	21672.9	100.0
LOAD SATISFIED	21672.9	100.0
TOTAL LOAD ON PLANT	21672.6	

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
ELECTRICAL LOADS	74.0	74.0	0.000	0.000	0

REPORT- PS-E MONTHLY ENERGY END-USE SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

0ELECTRICAL END-USES IN KWH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 AREA LIGHTS	450.	401.	448.	442.	448.	434.	450.	448.	434.	450.	415.	450.	5268.
MAX KW	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
DAY/HR	2/10	1/11	1/11	1/10	1/10	2/10	1/10	1/10	2/10	1/10	1/11	1/10	
0MISC EQUIPMT	630.	562.	628.	620.	628.	608.	630.	628.	608.	630.	581.	630.	7383.
MAX KW	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DAY/HR	2/10	1/11	1/11	1/10	1/10	2/10	1/10	1/10	2/10	1/10	1/11	1/10	
0 SPACE HEAT	775.	510.	210.	66.	16.	3.	2.	3.	6.	60.	362.	638.	2652.
MAX KW	6.0	6.8	3.1	2.8	1.1	0.5	0.5	0.5	0.7	1.3	4.1	6.3	6.8
DAY/HR	6/ 7	19/ 7	5/ 8	18/ 7	18/10	26/ 7	10/ 7	28/ 7	27/ 8	28/ 8	24/ 7	26/ 7	
0 SPACE COOL	0.	0.	0.	24.	53.	97.	224.	303.	85.	3.	0.	0.	790.
MAX KW	0.0	0.0	0.0	1.6	1.6	1.8	2.5	2.5	2.2	0.9	0.2	0.0	2.5
DAY/HR	0/ 0	0/ 0	0/ 0	27/16	15/17	28/16	24/16	29/17	15/17	4/16	4/15	0/ 0	
0 VENT FANS	379.	340.	379.	371.	379.	366.	379.	379.	366.	379.	356.	379.	4451.
MAX KW	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
DAY/HR	1/ 9	1/ 7	1/ 7	1/ 7	1/ 7	1/ 9	1/ 7	1/ 7	1/ 9	1/ 7	1/ 7	1/ 7	
0DOMHOT WATER	96.	86.	96.	94.	96.	93.	96.	96.	93.	96.	91.	96.	1130.
MAX KW	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
DAY/HR	2/13	3/13	3/13	1/13	1/13	2/13	1/13	1/13	2/13	1/13	3/13	1/13	
0 TOTAL KWH	2330.	1900.	1761.	1617.	1620.	1600.	1781.	1857.	1591.	1618.	1805.	2193.	21673.

0FUEL END-USES IN MBTU

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

0ENERGY-RESOURCE: ELECTRICITY
UNITS: KWH

0	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 PEAK DEMAND:	7.5	7.9	6.4	5.6	5.8	6.0	6.7	6.7	6.4	5.1	6.6	7.8
DAY/HR:	6/10	19/ 7	5/10	26/16	6/14	28/16	24/16	29/17	15/17	4/16	13/10	26/10
0BREAKDOWN												
0 AREA LIGHTS:	1.29	0.08	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
(%):	17.14	0.96	20.24	23.13	22.15	21.41	19.25	19.15	20.04	25.31	19.63	16.49
0MISC EQUIPMT:	1.82	0.10	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82
(%):	24.19	1.28	28.58	32.66	31.27	30.22	27.18	27.04	28.29	35.73	27.71	23.28
0 SPACE HEAT:	3.40	6.83	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.45	3.70
(%):	45.15	86.58	35.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.18	47.23
0 SPACE COOL:	0.00	0.00	0.00	1.37	1.56	1.82	2.51	2.54	2.24	0.89	0.00	0.00
(%):	0.00	0.00	0.00	24.56	26.67	30.19	37.43	37.70	34.80	17.46	0.00	0.00
0 VENT FANS:	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
(%):	11.44	10.93	13.51	15.44	14.78	14.29	12.85	12.78	13.37	16.89	13.10	11.00
0DOMHOT WATER:	0.16	0.02	0.16	0.24	0.30	0.24	0.22	0.23	0.23	0.24	0.16	0.16
(%):	2.08	0.25	2.46	4.21	5.12	3.89	3.28	3.34	3.49	4.60	2.38	2.00

0ENERGY-RESOURCE: NATURAL-GAS
UNITS: THERM

0	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 PEAK DEMAND:	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:	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0
0BREAKDOWN												
0 AREA LIGHTS:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0MISC EQUIPMT:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 SPACE HEAT:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 SPACE COOL:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 VENT FANS:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0DOMHOT WATER:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL HOURS AT HOURLY DEMAND AND TIME OF DAY

HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
	7	0	0	0	0	0	0	3	2	0	5	1	1	1	0	0	0	0	0	0	0	0	0	0	13
	7	0	0	0	0	0	0	1	3	4	12	9	4	1	1	1	3	1	0	0	0	0	0	0	40
	6	0	0	0	0	0	0	2	2	7	15	15	15	19	20	20	24	27	24	0	0	0	0	0	190
	6	0	0	0	0	0	0	2	3	26	15	21	18	23	30	33	39	42	43	5	8	2	0	0	310
D	5	0	0	0	0	0	0	5	21	15	42	57	72	74	71	71	60	66	60	25	16	22	0	0	677
E	4	0	0	0	0	0	0	30	23	19	49	36	170	200	197	46	45	38	29	34	26	12	0	0	954
M K	4	0	0	0	0	0	0	18	8	43	148	183	39	15	13	163	164	162	148	65	60	46	2	0	1277
A W	3	0	0	0	0	0	0	4	26	51	29	9	11	32	33	31	30	29	0	147	160	35	1	0	628
N	3	0	0	0	0	0	0	28	51	141	12	4	35	0	0	0	0	0	0	28	8	158	12	0	477
D	2	0	0	0	0	0	0	52	28	33	11	30	0	0	0	0	0	0	0	0	26	29	5	0	214
	1	0	0	0	0	0	0	27	137	26	27	0	0	0	0	0	0	0	61	0	0	0	32	0	310
	1	0	0	0	0	0	0	132	0	0	0	0	0	0	0	0	0	0	0	61	0	0	252	0	445
	0	365	365	365	365	365	365	61	61	0	0	0	0	0	0	0	0	0	0	0	61	61	61	365	3225
PERCENT TOTAL DEMAND	0.3	0.3	0.3	0.3	0.3	0.3	3.1	3.8	5.6	7.1	7.5	7.5	7.7	7.8	7.7	7.8	7.8	7.2	5.4	5.0	4.6	1.5	0.4	0.4	

PEAK ELECTRICAL LOAD BREAKDOWN

SOURCE	KW	PCT
SYSTEMS LOAD	7.892	100.0
TOTAL	7.892	

E Q U I P M E N T	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS
			-- -- --										

E Q U I P M E N T T O T A L S

EQUIPMENT TOTAL	0.0

ENERGY TYPE: ELECTRICITY UNITS: MBTU	
CATEGORY OF USE	
AREA LIGHTS	18.0
MISC EQUIPMT	25.2
SPACE HEAT	9.0
SPACE COOL	2.7
VENT FANS	15.2
DOMHOT WATER	3.9
TOTAL	74.0

TOTAL SITE ENERGY	73.97 MBTU	36.5 KBTU/SQFT-YR GROSS-AREA	36.5 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	221.93 MBTU	109.5 KBTU/SQFT-YR GROSS-AREA	109.5 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.

ENERGY TYPE:	ELECTRICITY
SITE UNITS:	KWH
CATEGORY OF USE	
AREA LIGHTS	5268.
MISC EQUIPMT	7383.
SPACE HEAT	2652.
SPACE COOL	790.
VENT FANS	4451.
DOMHOT WATER	1130.
TOTAL	21673.

TOTAL ELECTRICITY 21673. KWH 10.692 KWH /SQFT-YR GROSS-AREA 10.692 KWH /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.

MMDDHH	END-USE AREA LITE KW	END-USE TASK LITE KW	END-USE EQUIP ELEC KW	END-USE SOURCE ELEC KW	END-USE HEATING ELEC KW	END-USE SUPPLEMT ELEC KW	END-USE COOLING ELEC KW	END-USE HEAT REJ ELEC KW
	----(1)	----(2)	----(3)	----(4)	----(5)	----(11)	----(6)	----(7)
0 MONTHLY SUMMARY (JAN)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	5.975	0.000	0.000	0.000
SM	449.690	0.000	630.296	0.000	775.296	0.000	0.000	0.000
AV	0.604	0.000	0.847	0.000	1.042	0.000	0.000	0.000
0 MONTHLY SUMMARY (FEB)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	6.833	0.000	0.000	0.000
SM	401.346	0.000	562.492	0.000	509.557	0.000	0.000	0.000
AV	0.597	0.000	0.837	0.000	0.758	0.000	0.000	0.000
0 MONTHLY SUMMARY (MAR)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	3.104	0.000	0.000	0.000
SM	447.866	0.000	627.661	0.000	209.996	0.000	0.000	0.000
AV	0.602	0.000	0.844	0.000	0.282	0.000	0.000	0.000
0 MONTHLY SUMMARY (APR)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	2.849	0.000	1.632	0.000
SM	442.089	0.000	619.654	0.000	66.411	0.000	24.009	0.000
AV	0.614	0.000	0.861	0.000	0.092	0.000	0.033	0.000
0 MONTHLY SUMMARY (MAY)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	1.113	0.000	1.608	0.000
SM	447.866	0.000	627.661	0.000	15.903	0.000	53.307	0.000
AV	0.602	0.000	0.844	0.000	0.021	0.000	0.072	0.000
0 MONTHLY SUMMARY (JUN)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	0.474	0.000	1.822	0.000
SM	433.575	0.000	607.695	0.000	3.138	0.000	96.701	0.000
AV	0.602	0.000	0.844	0.000	0.004	0.000	0.134	0.000
0 MONTHLY SUMMARY (JUL)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	0.483	0.000	2.513	0.000
SM	449.690	0.000	630.296	0.000	1.821	0.000	224.449	0.000
AV	0.604	0.000	0.847	0.000	0.002	0.000	0.302	0.000
0 MONTHLY SUMMARY (AUG)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	0.485	0.000	2.544	0.000
SM	447.866	0.000	627.661	0.000	3.314	0.000	302.681	0.000
AV	0.602	0.000	0.844	0.000	0.004	0.000	0.407	0.000
0 MONTHLY SUMMARY (SEP)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	0.697	0.000	2.244	0.000
SM	433.575	0.000	607.695	0.000	6.040	0.000	85.237	0.000
AV	0.602	0.000	0.844	0.000	0.008	0.000	0.118	0.000
0 MONTHLY SUMMARY (OCT)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	1.254	0.000	0.891	0.000
SM	449.690	0.000	630.296	0.000	59.903	0.000	3.357	0.000
AV	0.604	0.000	0.847	0.000	0.081	0.000	0.005	0.000
0 MONTHLY SUMMARY (NOV)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	4.078	0.000	0.214	0.000
SM	414.724	0.000	581.141	0.000	362.021	0.000	0.329	0.000
AV	0.576	0.000	0.807	0.000	0.503	0.000	0.000	0.000
0 MONTHLY SUMMARY (DEC)								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	6.317	0.000	0.000	0.000
SM	449.690	0.000	630.296	0.000	638.185	0.000	0.000	0.000
AV	0.604	0.000	0.847	0.000	0.858	0.000	0.000	0.000
0 YEARLY SUMMARY								
MN	0.076	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.292	0.000	1.824	0.000	6.833	0.000	2.544	0.000
SM	5267.667	0.000	7382.841	0.000	2651.584	0.000	790.069	0.000
AV	0.601	0.000	0.843	0.000	0.303	0.000	0.090	0.000

MMDDHH	END-USE AUXIL ELEC KW	END-USE VENTILAT ELEC KW	END-USE DHW HEAT ELEC KW	END-USE SOURCE FUEL BTU/HR	END-USE HEATING FUEL BTU/HR	END-USE COOLING FUEL BTU/HR	END-USE DHW HEAT FUEL BTU/HR	END-USE EXTERIOR LITE KW
	----(8)	----(9)	----(12)	----(14)	----(15)	----(16)	----(18)	----(20)
0 MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	378.594	96.081	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.509	0.129	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	339.786	86.355	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.506	0.129	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	379.456	96.219	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.510	0.129	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (APR)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	370.832	93.834	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.515	0.130	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	379.456	96.219	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.510	0.129	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	365.658	92.839	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.508	0.129	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	378.594	96.081	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.509	0.129	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	379.456	96.219	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.510	0.129	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	365.658	92.839	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.508	0.129	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	378.594	96.081	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.509	0.129	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	356.171	90.988	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.495	0.126	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	378.594	96.081	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.509	0.129	0.000	0.000	0.000	0.000	0.000
0 YEARLY SUMMARY								
MN	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.000
MX	0.000	0.862	0.304	0.000	0.000	0.000	0.000	0.000
SM	0.000	4450.848	1129.837	0.000	0.000	0.000	0.000	0.000
AV	0.000	0.508	0.129	0.000	0.000	0.000	0.000	0.000

MMDDHH	END-USE EXT MISC ELEC KW	END-USE EXT MISC FUEL BTU/HR	END-USE METER STEAM UNITS	END-USE METER CHIL WTR UNITS	PLANT SYS HEAT LOAD BTU/HR	PLANT SYS COOL LOAD BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE TOTAL IN STORAGE BTU/HR
	----(21)	----(22)	----(33)	----(34)	----(1)	----(2)	----(1)	----(14)
0 MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (APR)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 YEARLY SUMMARY								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.

MESSAGE LIST FROM ECONOMICS PROGRAM

0 **CAUTION**********
BLOCK-CHARGE RATE-01-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-11-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-21-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-31-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-41-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-51-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-01-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-11-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-21-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-31-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-41-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-51-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

REPORT- ES-D ENERGY COST SUMMARY

UTILITY-RATE	RESOURCE	METERS	METERED ENERGY UNITS/YR	TOTAL CHARGE ($)	VIRTUAL RATE ($/UNIT)	RATE USED ALL YEAR?
0ELEC-CO Electric	ELECTRICITY	1 2 3 4 5	21673. KWH	15324.	0.7070	YES
0GAS-CO GAS	NATURAL-GAS	1 2 3 4 5	0. THERM	0.	0.0000	YES
0				==========		
0				15324.		

ENERGY COST/GROSS BLDG AREA: 7.56
ENERGY COST/NET BLDG AREA: 7.56

REPORT- ES-E SUMMARY OF UTILITY-RATE: ELEC-CO Electric

UTILITY-RATE: ELEC-CO Electric
RESOURCE: ELECTRICITY
METERS: 1 2 3 4 5
POWER-FACTOR: 0.80
DEMAND-WINDOW: HOUR
BILLING-DAY: 31
EXCESS-KVAR-FRAC: 0.30
3413. BTU/KWH
RATE-LIMITATION: 0.0000
EXCESS-KVAR-CHG: 0.0000

RATE-QUALIFICATIONS
MIN-ENERGY: 0.0
MAX-ENERGY: 0.0
MIN-DEMAND: 0.0
MAX-DEMAND: 0.0
QUALIFY-RATE: ALL-MONTHS
USE-MIN-QUAL: NO

BLOCK-CHARGES
RATE-01-ELECTRIC
RATE-11-ELECTRIC
RATE-21-ELECTRIC
RATE-31-ELECTRIC
RATE-41-ELECTRIC
RATE-51-ELECTRIC

DEMAND-RATCHETS

MIN-MON-RATCHETS

0

MONTH	METERED ENERGY KWH	BILLING ENERGY KWH	METERED DEMAND KW	BILLING DEMAND KW	ENERGY CHARGE ($)	DEMAND CHARGE ($)	ENERGY CST ADJ ($)	TAXES ($)	SURCHRG ($)	FIXED CHARGE ($)	MINIMUM CHARGE ($)	VIRTUAL RATE ($/UNIT)	TOTAL CHARGE ($)
0 JAN	2330	2330	7.5	7.5	1631	15	0	0	0	0	0	0.7063	1646
0 FEB	1900	1900	7.9	7.9	1330	14	0	0	0	0	0	0.7076	1344
0 MAR	1761	1761	6.4	6.4	1233	12	0	0	0	0	0	0.7066	1244
0 APR	1617	1617	5.6	5.6	1132	11	0	0	0	0	0	0.7070	1143
0 MAY	1620	1620	5.8	5.8	1134	11	0	0	0	0	0	0.7071	1146
0 JUN	1600	1600	6.0	6.0	1120	13	0	0	0	0	0	0.7079	1132
0 JUL	1781	1781	6.7	6.7	1247	13	0	0	0	0	0	0.7074	1260
0 AUG	1857	1857	6.7	6.7	1300	14	0	0	0	0	0	0.7074	1314
0 SEP	1591	1591	6.4	6.4	1114	13	0	0	0	0	0	0.7079	1126
0 OCT	1618	1618	5.1	5.1	1133	10	0	0	0	0	0	0.7064	1143
0 NOV	1805	1805	6.6	6.6	1264	13	0	0	0	0	0	0.7071	1277
0 DEC	2193	2193	7.8	7.8	1535	14	0	0	0	0	0	0.7064	1549
TOTAL	21673	21673	7.9		15171	153	0	0	0	0		0.7070	15324

REPORT- ES-F BLOCK-CHARGE AND RATCHET SUMMARY FOR: ELEC-CO Electric

UTILITY-RATE: ELEC-CO Electric
RESOURCE: ELECTRICITY
ENERGY-UNITS: KWH
DEMAND-UNITS: KW
DEMAND-WINDOW: HOUR

0

BLOCK-CHARGES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
0RATE-01-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	322	309	277	213	0	0	0	0	0	0	355	316	
BILLING ENERGY:	322	309	277	213	0	0	0	0	0	0	355	316	1791
METERED DEMAND:	6.6	6.1	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	6.0	
BILLING DEMAND:	6.6	6.1	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	6.0	
ENERGY CHGS($):	225	216	194	149	0	0	0	0	0	0	248	221	1254
DEMAND CHGS($):	5	4	4	3	0	0	0	0	0	0	4	4	24
TOTAL CHGS($):	230	220	197	153	0	0	0	0	0	0	252	226	1278
0RATE-11-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	1354	1069	996	941	0	0	0	0	0	0	934	1242	
BILLING ENERGY:	1354	1069	996	941	0	0	0	0	0	0	934	1242	6536
METERED DEMAND:	7.5	7.9	6.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	6.6	7.8	
BILLING DEMAND:	7.5	7.9	6.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	6.6	7.8	
ENERGY CHGS($):	948	748	697	659	0	0	0	0	0	0	654	869	4576
DEMAND CHGS($):	5	6	4	4	0	0	0	0	0	0	5	5	29
TOTAL CHGS($):	953	754	702	663	0	0	0	0	0	0	658	875	4605
0RATE-21-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	238	212	216	265	211	218	0	0	
BILLING ENERGY:	0	0	0	0	238	212	216	265	211	218	0	0	1360
METERED DEMAND:	0.0	0.0	0.0	0.0	4.7	5.9	5.5	6.3	5.4	4.7	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	4.7	5.9	5.5	6.3	5.4	4.7	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	167	148	151	185	148	153	0	0	952
DEMAND CHGS($):	0	0	0	0	3	4	4	4	4	3	0	0	23
TOTAL CHGS($):	0	0	0	0	170	153	155	190	152	156	0	0	975
0RATE-31-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	886	885	991	998	885	917	0	0	
BILLING ENERGY:	0	0	0	0	886	885	991	998	885	917	0	0	5562
METERED DEMAND:	0.0	0.0	0.0	0.0	5.8	6.0	6.7	6.7	6.2	5.1	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	5.8	6.0	6.7	6.7	6.2	5.1	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	620	619	693	699	620	642	0	0	3893
DEMAND CHGS($):	0	0	0	0	4	4	5	5	4	4	0	0	26
TOTAL CHGS($):	0	0	0	0	625	624	698	703	624	645	0	0	3919
0RATE-41-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	496	503	574	595	495	483	0	0	
BILLING ENERGY:	0	0	0	0	496	503	574	595	495	483	0	0	3145
METERED DEMAND:	0.0	0.0	0.0	0.0	5.8	6.0	6.5	6.7	6.4	4.9	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	5.8	6.0	6.5	6.7	6.4	4.9	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	347	352	402	416	346	338	0	0	2201
DEMAND CHGS($):	0	0	0	0	4	4	5	5	5	3	0	0	25
TOTAL CHGS($):	0	0	0	0	351	356	407	421	351	341	0	0	2227
0RATE-51-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	654	521	488	463	0	0	0	0	0	0	517	635	
BILLING ENERGY:	654	521	488	463	0	0	0	0	0	0	517	635	3278
METERED DEMAND:	6.7	6.6	5.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.3	
BILLING DEMAND:	6.7	6.6	5.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.3	
ENERGY CHGS($):	458	365	342	324	0	0	0	0	0	0	362	445	2295
DEMAND CHGS($):	5	5	4	4	0	0	0	0	0	0	4	4	25
TOTAL CHGS($):	463	370	345	328	0	0	0	0	0	0	366	449	2320
TOTAL ENERGY:	2330	1900	1761	1617	1620	1600	1781	1857	1591	1618	1805	2193	21673
TOTAL CHARGES ($):	1646	1344	1244	1143	1146	1132	1260	1314	1126	1143	1277	1549	15324

REPORT- ES-E SUMMARY OF UTILITY-RATE: GAS-CO GAS

UTILITY-RATE: GAS-CO GAS RESOURCE: NATURAL-GAS DEMAND-WINDOW: HOUR 100000. BTU/THERM
METERS: 1 2 3 4 5 BILLING-DAY: 31 RATE-LIMITATION: 0.0000

RATE-QUALIFICATIONS
- MIN-ENERGY: 0.0
- MAX-ENERGY: 0.0
- MIN-DEMAND: 0.0
- MAX-DEMAND: 0.0
- QUALIFY-RATE: ALL-MONTHS
- USE-MIN-QUAL: NO

BLOCK-CHARGES
- RATE-01-NATURAL-
- RATE-11-NATURAL-
- RATE-21-NATURAL-
- RATE-31-NATURAL-
- RATE-41-NATURAL-
- RATE-51-NATURAL-

DEMAND-RATCHETS

MIN-MON-RATCHETS

0

MONTH	METERED ENERGY THERM	BILLING ENERGY THERM	METERED DEMAND THERMS	BILLING DEMAND THERMS	ENERGY CHARGE ($)	DEMAND CHARGE ($)	ENERGY CST ADJ ($)	TAXES ($)	SURCHRG ($)	FIXED CHARGE ($)	MINIMUM CHARGE ($)	VIRTUAL RATE ($/UNIT)	TOTAL CHARGE ($)
0 JAN	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 FEB	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 MAR	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 APR	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 MAY	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 JUN	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 JUL	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 AUG	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 SEP	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 OCT	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 NOV	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
0 DEC	0	0	0.0	0.0	0	0	0	0	0	0	0	0.0000	0
TOTAL	0	0	0.0		0	0	0	0	0	0		0.0000	0

Proposed Building (ASHRAE 90.1 Appendix East Town Crossing Lot 1 Tenant 2 DOE-2.1E-124 Tue Jun 3 14:28:18 2025EDL RUN 1

REPORT- ES-F BLOCK-CHARGE AND RATCHET SUMMARY FOR: GAS-CO GAS

UTILITY-RATE: GAS-CO GAS
RESOURCE: NATURAL-GAS
ENERGY-UNITS: THERM
DEMAND-UNITS: THERMS
DEMAND-WINDOW: HOUR
0

BLOCK-CHARGES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
0RATE-01-NATURAL- USE: TIME-OF-USE													
0RATE-11-NATURAL- USE: TIME-OF-USE													
0RATE-21-NATURAL- USE: TIME-OF-USE													
0RATE-31-NATURAL- USE: TIME-OF-USE													
0RATE-41-NATURAL- USE: TIME-OF-USE													
0RATE-51-NATURAL- USE: TIME-OF-USE													
TOTAL CHARGES ($):	0	0	0	0	0	0	0	0	0	0	0	0	0

DOE-2 UNITS TABLE

	ENGLISH	MULTIPLIED BY	GIVES	METRIC	MULTIPLIED BY	GIVES	ENGLISH
1			1.000000			1.000000	
2			1.000000			1.000000	
3	BTU		0.293000	WH		3.412969	BTU
4	BTU/HR		0.293000	WATT		3.412969	BTU/HR
5	BTU/LB-F		4183.830078	J/KG-K		0.000239	BTU/LB-F
6	BTU/HR-SQFT-F		5.674460	W/M2-K		0.176228	BTU/HR-SQFT-F
7	DEGREES		1.000000	DEGREES		1.000000	DEGREES
9	SQFT		0.092903	M2		10.763915	SQFT
10	CUFT		0.028317	M3		35.314724	CUFT
11	LB/HR		0.453592	KG/HR		2.204624	LB/HR
12	LB/CUFT		16.018459	KG/M3		0.062428	LB/CUFT
13	MPH		0.447040	M/S		2.236936	MPH
14	BTU/HR-F		0.527178	W/K		1.896893	BTU/HR-F
15	FT		0.304800	M		3.280840	FT
16	BTU/HR-FT-F		1.729600	W/M-K		0.578168	BTU/HR-FT-F
17	BTU/HR- SQFT		3.152480	WATT /M2		0.317211	BTU/HR- SQFT
18	IN		2.540000	CM		0.393701	IN
19	UNITS/IN		0.393700	UNITS/CM		2.540005	UNITS/IN
20	UNITS		1.000000	UNITS		1.000000	UNITS
21	LB		0.453592	KG		2.204624	LB
22	FRAC.OR MULT.		1.000000	FRAC.OR MULT.		1.000000	FRAC.OR MULT.
23	HOURS		1.000000	HRS		1.000000	HOURS
24	PERCENT-RH		1.000000	PERCENT-RH		1.000000	PERCENT-RH
25	CFM		1.699010	M3/H		0.588578	CFM
26	IN-WATER		25.400000	MM-WATER		0.039370	IN-WATER
27	LB/SQFT		4.882400	KG/M2		0.204817	LB/SQFT
28	KW		1.000000	KW		1.000000	KW
29	W/SQFT		10.763920	W/M2		0.092903	W/SQFT
30	THERMS		25.000000	THERMIES		0.040000	THERMS
31	KNOTS		0.514440	M/SEC		1.943861	KNOTS
32	HR-SQFT-F /BTU		0.176228	M2-K /W		5.674467	HR-SQFT-F /BTU
33	$DOLLARS		1.000000	$DOLLARS		1.000000	$DOLLARS
34	MBTU/HR		0.293000	MWATT		3.412969	MBTU/HR
35	YEARS		1.000000	YEARS		1.000000	YEARS
36	$/HR		1.000000	$/HR		1.000000	$/HR
37	HRS/YEARS		1.000000	HRS/YEARS		1.000000	HRS/YEARS
38	PERCENT		1.000000	PERCENT		1.000000	PERCENT
39	$/MONTH		1.000000	$/MONTH		1.000000	$/MONTH
40	GALLONS/MIN/TON		1.078000	LITERS/MIN/KW		0.927644	GALLONS/MIN/TON
41	BTU/LB		0.645683	WH/KG		1.548748	BTU/LB
42	LBS/SQIN-GAGE		68.947571	MBAR-GAGE		0.014504	LBS/SQIN-GAGE
43	$/UNIT		1.000000	$/UNIT		1.000000	$/UNIT
44	BTU/HR/PERSON		0.293000	W/PERSON		3.412969	BTU/HR/PERSON
45	LBS/LB		1.000000	KGS/KG		1.000000	LBS/LB
46	BTU/BTU		1.000000	KWH/KWH		1.000000	BTU/BTU
47	LBS/KW		0.453590	KG/KW		2.204634	LBS/KW
48	REV/MIN		1.000000	REV/MIN		1.000000	REV/MIN
49	KW/TON		1.000000	KW/TON		1.000000	KW/TON
50	MBTU		0.293000	MWH		3.412969	MBTU
51	GAL		3.785410	LITER		0.264172	GAL
52	GAL/MIN		3.785410	LITERS/MIN		0.264172	GAL/MIN
53	BTU/F		1897.800049	J/K		0.000527	BTU/F
54	UNITS/HR		1.000000	UNITS/HR		1.000000	UNITS/HR
55	$/UNIT-HR		1.000000	$/UNIT-HR		1.000000	$/UNIT-HR
56	KW/CFM		0.588500	KW/M3/HR		1.699235	KW/CFM
57	BTU/SQFT-F		20428.400391	J/M2-K		0.000049	BTU/SQFT-F
58	HR/HR		1.000000	HR/HR		1.000000	HR/HR
59	BTU/FT-F		6226.479980	J/M-K		0.000161	BTU/FT-F
60	R		0.555556	K		1.799999	R
61	INCH MER		33.863800	MBAR		0.029530	INCH MER
62	UNITS/GAL/MIN		0.264170	UNITS/LITER/MIN		3.785441	UNITS/GAL/MIN
63	(HR-SQFT-F/BTU)2		0.031056	(M2-K /W)2		32.199585	(HR-SQFT-F/BTU)2
64	KBTU/HR		0.293000	KW		3.412969	KBTU/HR
65	KBTU		0.293000	KWH		3.412969	KBTU
66	CFM		0.471900	L/S		2.119093	CFM
67	CFM/SQFT		18.288000	M3/H-M2		0.054681	CFM/SQFT
68	1/R		1.799900	1/K		0.555586	1/R
69	1/KNOT		1.943860	SEC/M		0.514440	1/KNOT
70	FOOTCANDLES		10.763910	LUX		0.092903	FOOTCANDLES
71	FOOTLAMBERT		3.426259	CANDELA/M2		0.291864	FOOTLAMBERT
72	LUMEN / WATT		1.000000	LUMEN / WATT		1.000000	LUMEN / WATT
73	KBTU/SQFT-YR		3.152480	KWH/M2-YR		0.317211	KBTU/SQFT-YR

DATA FOR SPACE 1-Tenant-1 Pizza

LOCATION OF ORIGIN IN BUILDING COORDINATES

XB (FT)	YB (FT)	ZB (FT)	SPACE AZIMUTH (DEG)	SPACE*FLOOR MULTIPLIER	HEIGHT (FT)	AREA (SQFT)	VOLUME (CUFT)
0.00	0.00	0.00	0.00	1.0	8.00	2964.00	23712.00

TOTAL NUMBER OF SURFACES	NUMBER OF EXTERIOR SURFACES	NUMBER OF INTERIOR SURFACES	NUMBER OF UNDERGROUND SURFACES	DAYLIGHTING	SUNSPACE
6	5	0	1	NO	NO

NUMBER OF SUBSURFACES

TOTAL	EXTERIOR WINDOWS	DOORS	INTERIOR WINDOWS
5	5	0	0

FLOOR WEIGHT (LB/SQFT)	CALCULATION TEMPERATURE (F)
91.3	72.0

INFILTRATION

SCHEDULE	INFILTRATION CALCULATION METHOD	FLOW RATE (CFM/SQFT)	AIR CHANGES PER HOUR	HEIGHT TO NEUTRAL ZONE (FT)
SCHED-185	AIR-CHANGE	0.00	0.25	0.0

PEOPLE

SCHEDULE	NUMBER	AREA PER PERSON (SQFT)	PEOPLE ACTIVITY (BTU/HR)	PEOPLE SENSIBLE (BTU/HR)	PEOPLE LATENT (BTU/HR)
SCHED-185	10.0	296.4	0.0	275.0	275.0

LIGHTING

SCHEDULE	LIGHTING TYPE	LOAD (WATTS/ SQFT)	LOAD (KW)	FRACTION OF LOAD TO SPACE
SCHED-186	REC-FLUOR-NV	1.40	0.00	1.00

TASK LIGHTING

SCHEDULE	LOAD (WATTS/ SQFT)	LOAD (KW)
SCHED-186	0.00	0.

ELECTRICAL EQUIPMENT

SCHEDULE	ELEC LOAD (WATTS/ SQFT)	ELEC LOAD (KW)	FRACTION OF LOAD TO SPACE SENSIBLE	LATENT
SCHED-187	1.50	0.00	1.00	0.00

EXTERIOR SURFACES (U-VALUE EXCLUDES OUTSIDE AIR FILM)

SURFACE	MULTIPLIER	AREA (SQFT)	WIDTH (FT)	HEIGHT (FT)	CONSTRUCTION	U-VALUE (BTU/HR-SQFT-F)	SURFACE TYPE
	1.0	718.00	89.75	8.00	Wall-3	0.127	QUICK
	1.0	219.04	27.38	8.00	Wall-3	0.127	QUICK
	1.0	696.00	87.00	8.00	Wall-3	0.127	QUICK
	1.0	712.00	89.00	8.00	Wall-3	0.127	QUICK
	1.0	2963.71	54.44	54.44	Roof-5	0.064	QUICK

SURFACE	AZIMUTH (DEG)	TILT (DEG)	LOCATION OF ORIGIN IN BUILDING COORDINATES XB (FT)	YB (FT)	ZB (FT)	LOCATION OF ORIGIN IN SPACE COORDINATES X (FT)	Y (FT)	Z (FT)
	0.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	90.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	180.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	270.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00

UNDERGROUND SURFACES (U-VALUE INCLUDES INSIDE AIR FILM)

SURFACE	MULTIPLIER	AREA (SQFT)	CONSTRUCTION	U-VALUE (BTU/HR-SQFT-F)
	1.0	2964.00	Slab-4	0.74

EXTERIOR WINDOWS (U-VALUE INCLUDES OUTSIDE AIR FILM)

WINDOW	MULTIPLIER	GLASS AREA (SQFT)	GLASS SHADING COEFF	NUMBER OF PANES	GLASS TYPE CODE	SET-BACK (FT)	GLASS WIDTH (FT)	GLASS HEIGHT (FT)	CENTER-OF-GLASS U-VALUE (BTU/HR-SQFT-F)	GLASS VISIBLE TRANS
	1.0	309.02	0.45	1	1	0.00	46.33	6.67	0.570	0.900
	1.0	116.99	0.45	1	1	0.00	17.54	6.67	0.570	0.900
	1.0	50.03	0.45	1	1	0.00	7.50	6.67	0.570	0.900
	1.0	194.03	0.45	1	1	0.00	29.09	6.67	0.570	0.900
	1.0	50.03	0.45	1	1	0.00	7.50	6.67	0.570	0.900

WINDOW	LOCATED IN SURFACE	LOCATION OF ORIGIN IN BUILDING COORDINATES XB (FT)	YB (FT)	ZB (FT)	LOCATION OF ORIGIN IN SURFACE COORDINATES X (FT)	Y (FT)
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00

REPORT- LV-D DETAILS OF EXTERIOR SURFACES IN THE PROJECT WEATHER FILE- SEATTLE SEATTLE-T WA

NUMBER OF EXTERIOR SURFACES 5 RECTANGULAR 5 OTHER 0
(U-VALUE INCLUDES OUTSIDE AIR FILM; WINDOW INCLUDES FRAME, IF DEFINED)

SURFACE	SPACE	- - - W I N D O W S - - - U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	- - - - W A L L - - - - U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	-W A L L + W I N D O W S- U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	AZIMUTH
	1-Tenant-1 Pizza	0.570	309.02	0.121	408.98	0.314	718.00	NORTH
	1-Tenant-1 Pizza	0.000	0.00	0.121	219.04	0.121	219.04	EAST
	1-Tenant-1 Pizza	0.570	167.02	0.121	528.98	0.228	696.00	SOUTH
	1-Tenant-1 Pizza	0.570	244.06	0.121	467.94	0.275	712.00	WEST
	1-Tenant-1 Pizza	0.000	0.00	0.062	2963.71	0.062	2963.71	ROOF
	1-Tenant-1 Pizza	0.000	0.00	0.735	2964.00	0.735	2964.00	UNDERGRND

REPORT- LV-D DETAILS OF EXTERIOR SURFACES IN THE PROJECT WEATHER FILE- SEATTLE SEATTLE-T WA

----------(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	0.570	0.121	0.314	309.02	408.98	718.00
EAST	0.000	0.121	0.121	0.00	219.04	219.04
SOUTH	0.570	0.121	0.228	167.02	528.98	696.00
WEST	0.570	0.121	0.275	244.06	467.94	712.00
ROOF	0.000	0.062	0.062	0.00	2963.71	2963.71
ALL WALLS	0.570	0.121	0.259	720.09	1624.95	2345.04
WALLS+ROOFS	0.570	0.083	0.149	720.09	4588.66	5308.75
UNDERGRND	0.000	0.735	0.735	0.00	2964.00	2964.00
BUILDING	0.570	0.339	0.359	720.09	7552.66	8272.75

REPORT- LV-I DETAILS OF CONSTRUCTIONS OCCURRING IN THE PROJECT WEATHER FILE- SEATTLE SEATTLE-T WA

NUMBER OF CONSTRUCTIONS 6 DELAYED 4 QUICK 2

CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)	SURFACE ABSORPTANCE	SURFACE ROUGHNESS INDEX	SURFACE TYPE	NUMBER OF RESPONSE FACTORS
Wall-0	0.097	0.70	1	DELAYED	9
Slab-1	0.735	0.70	3	DELAYED	5
Roof-2	0.032	0.70	3	DELAYED	11
Wall-3	0.127	0.70	1	QUICK	0
Slab-4	0.735	0.70	3	DELAYED	5
Roof-5	0.064	0.70	3	QUICK	0

Baseline Building (90.1 Appendix G) East Town Crossing Lot 1 Tenant-1 DOE-2.1E-124 Tue Jun 3 14:29:03 2025LDL RUN 1

REPORT- LS-A SPACE PEAK LOADS SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

SPACE NAME	MULTIPLIER SPACE	MULTIPLIER FLOOR	COOLING LOAD (KBTU/HR)	TIME OF PEAK	DRY-BULB	WET-BULB	HEATING LOAD (KBTU/HR)	TIME OF PEAK	DRY-BULB	WET-BULB
1-Tenant-1 Pizza	1.	1.	54.344	AUG 29 5 PM	89.F	67.F	-31.826	FEB 19 6 AM	22.F	21.F
SUM			54.344				-31.826			
BUILDING PEAK			54.344	AUG 29 5 PM	89.F	67.F	-31.826	FEB 19 6 AM	22.F	21.F

SPACE 1-Tenant-1 Pizza
SPACE TEMPERATURE USED FOR THE LOADS CALCULATION IS 72 F / 22 C

MULTIPLIER 1.0 FLOOR MULTIPLIER 1.0

FLOOR AREA 2964 SQFT 275 M2
VOLUME 23712 CUFT 672 M3

	COOLING LOAD		HEATING LOAD	
TIME	AUG 29 5PM		FEB 19 6AM	
DRY-BULB TEMP	89 F	32 C	22 F	-6 C
WET-BULB TEMP	67 F	19 C	21 F	-6 C
TOT HORIZONTAL SOLAR RAD	152 BTU/H.SQFT	479 W/M2	0 BTU/H.SQFT	0 W/M2
WINDSPEED AT SPACE	3.2 KTS	1.6 M/S	5.8 KTS	3.0 M/S
CLOUD AMOUNT 0(CLEAR)-10	4		0	

	SENSIBLE (KBTU/H)	SENSIBLE (KW)	LATENT (KBTU/H)	LATENT (KW)	SENSIBLE (KBTU/H)	SENSIBLE (KW)
WALL CONDUCTION	7.041	2.063	0.000	0.000	-9.759	-2.860
ROOF CONDUCTION	8.395	2.460	0.000	0.000	-9.897	-2.900
WINDOW GLASS+FRM COND	3.515	1.030	0.000	0.000	-17.776	-5.208
WINDOW GLASS SOLAR	13.862	4.062	0.000	0.000	1.576	0.462
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURF COND	-1.711	-0.501	0.000	0.000	-3.491	-1.023
OCCUPANTS TO SPACE	0.127	0.037	0.000	0.000	2.076	0.608
LIGHT TO SPACE	10.560	3.094	0.000	0.000	4.500	1.318
EQUIPMENT TO SPACE	12.555	3.679	0.000	0.000	4.340	1.272
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	0.000	0.000	0.000	0.000	-3.394	-0.994
TOTAL	54.344	15.923	0.000	0.000	-31.826	-9.325
TOTAL / AREA	0.018	0.058	0.000	0.000	-0.011	-0.034
TOTAL LOAD	54.344 KBTU/H	15.923 KW			-31.826 KBTU/H	-9.325 KW
TOTAL LOAD / AREA	18.33 BTU/H.SQFT	57.824 W/M2			10.738 BTU/H.SQFT	33.865 W/M2

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*
* NOTE 1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR
* ----   LOADS
*   2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION
*   IN CONSIDERATION
*   3)THE ABOVE LOADS ARE CALCULATED ASSUMING A
*   CONSTANT INDOOR SPACE TEMPERATURE
*
****

*** BUILDING ***

FLOOR AREA	2964	SQFT	275	M2
VOLUME	23712	CUFT	672	M3

	COOLING LOAD		HEATING LOAD	
TIME	AUG 29 5PM		FEB 19 6AM	
DRY-BULB TEMP	89 F	32 C	22 F	-6 C
WET-BULB TEMP	67 F	19 C	21 F	-6 C
TOT HORIZONTAL SOLAR RAD	152 BTU/H.SQFT	479 W/M2	0 BTU/H.SQFT	0 W/M2
WINDSPEED AT SPACE	3.2 KTS	1.6 M/S	5.8 KTS	3.0 M/S
CLOUD AMOUNT 0(CLEAR)-10	4		0	

	SENSIBLE		LATENT		SENSIBLE	
	(KBTU/H)	(KW)	(KBTU/H)	(KW)	(KBTU/H)	(KW)
WALL CONDUCTION	7.041	2.063	0.000	0.000	-9.759	-2.860
ROOF CONDUCTION	8.395	2.460	0.000	0.000	-9.897	-2.900
WINDOW GLASS+FRM COND	3.515	1.030	0.000	0.000	-17.776	-5.208
WINDOW GLASS SOLAR	13.862	4.062	0.000	0.000	1.576	0.462
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURF COND	-1.711	-0.501	0.000	0.000	-3.491	-1.023
OCCUPANTS TO SPACE	0.127	0.037	0.000	0.000	2.076	0.608
LIGHT TO SPACE	10.560	3.094	0.000	0.000	4.500	1.318
EQUIPMENT TO SPACE	12.555	3.679	0.000	0.000	4.340	1.272
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	0.000	0.000	0.000	0.000	-3.394	-0.994
TOTAL	54.344	15.923	0.000	0.000	-31.826	-9.325
TOTAL / AREA	0.018	0.058	0.000	0.000	-0.011	-0.034

TOTAL LOAD	54.344	KBTU/H	15.923	KW	
TOTAL LOAD / AREA	18.33	BTU/H.SQFT	57.824	W/M2	
	-31.826	KBTU/H	-9.325	KW	
	10.738	BTU/H.SQFT	33.865	W/M2	

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*****************************************************************
*                                                               *
*  NOTE  1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR      *
*  ----    LOADS                                                *
*        2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION        *
*          IN CONSIDERATION                                     *
*        3)THE ABOVE LOADS ARE CALCULATED ASSUMING A            *
*          CONSTANT INDOOR SPACE TEMPERATURE                    *
*                                                               *
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REPORT- LS-D BUILDING MONTHLY LOADS SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -						- - - - - - - - H E A T I N G - - - - - - - -						- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.83615	20	13	44.F	40.F	15.543	-6.345	15	5	27.F	25.F	-27.430	3594.	7.529
FEB	2.16609	27	16	67.F	54.F	34.357	-4.770	19	6	22.F	21.F	-31.826	3230.	7.529
MAR	4.64438	14	16	63.F	52.F	36.333	-3.464	24	6	35.F	29.F	-22.460	3587.	7.529
APR	7.64073	27	15	81.F	63.F	43.170	-2.022	19	5	35.F	34.F	-19.164	3502.	7.529
MAY	10.83180	15	15	74.F	55.F	49.811	-1.017	18	5	42.F	42.F	-16.235	3587.	7.529
JUN	12.74107	28	17	80.F	62.F	49.575	-0.277	15	4	47.F	46.F	-7.536	3473.	7.529
JUL	16.06558	24	15	87.F	66.F	53.747	-0.028	5	4	52.F	46.F	-2.691	3594.	7.529
AUG	15.71003	29	16	89.F	67.F	54.344	-0.045	18	4	53.F	52.F	-3.703	3587.	7.529
SEP	11.13417	22	16	77.F	64.F	48.125	-0.327	27	5	45.F	44.F	-10.258	3473.	7.529
OCT	6.38341	4	15	71.F	53.F	37.390	-1.715	28	4	46.F	44.F	-13.472	3594.	7.529
NOV	2.51049	4	14	70.F	61.F	36.706	-3.627	11	6	33.F	33.F	-20.548	3408.	7.529
DEC	1.15985	10	15	51.F	48.F	19.516	-5.587	26	4	30.F	30.F	-24.865	3594.	7.529
TOTAL	91.824						-29.223						42223.	
MAX						54.344						-31.826		7.529

REPORT- LS-E SPACE MONTHLY LOAD COMPONENTS IN MBTU FOR 1-Tenant-1 Pizza WEATHER FILE- SEATTLE SEATTLE-T WA

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
	HEATNG	-3.422	-3.499	0.000	-1.713	-0.243	-6.349	1.026	0.369	3.562	3.925	0.000	-6.345
JAN	SEN CL	-0.965	-0.979	0.000	-0.692	0.000	-2.230	0.906	0.036	2.162	2.598	0.000	0.836
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-2.457	-2.506	0.000	-1.378	-0.215	-4.649	1.071	0.321	2.435	2.608	0.000	-4.770
FEB	SEN CL	-1.001	-0.973	0.000	-0.967	0.000	-2.627	1.704	0.050	2.718	3.261	0.000	2.166
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-1.856	-1.887	0.000	-1.226	-0.233	-3.565	1.080	0.329	1.925	1.969	0.000	-3.464
MAR	SEN CL	-1.113	-0.821	0.000	-1.387	-0.003	-3.344	2.882	0.080	3.801	4.549	0.000	4.644
	LAT CL					0.000			0.008		0.000	0.000	0.008
	HEATNG	-1.250	-1.250	0.000	-0.875	-0.173	-2.434	1.018	0.276	1.340	1.325	0.000	-2.022
APR	SEN CL	-0.822	-0.197	0.000	-1.566	-0.011	-3.175	4.011	0.109	4.251	5.040	0.000	7.641
	LAT CL					0.000			0.036		0.000	0.000	0.036
	HEATNG	-0.872	-0.870	0.000	-0.595	-0.132	-1.697	0.937	0.254	0.996	0.961	0.000	-1.017
MAY	SEN CL	-0.546	0.430	0.000	-1.562	-0.026	-3.054	5.147	0.155	4.730	5.558	0.000	10.832
	LAT CL					0.001			0.080		0.000	0.000	0.080
	HEATNG	-0.341	-0.351	0.000	-0.227	-0.072	-0.669	0.414	0.134	0.430	0.404	0.000	-0.277
JUN	SEN CL	-0.391	0.689	0.000	-1.507	-0.067	-2.813	5.553	0.259	5.111	5.906	0.000	12.741
	LAT CL					0.002			0.215		0.000	0.000	0.217
	HEATNG	-0.087	-0.093	0.000	-0.054	-0.016	-0.171	0.121	0.045	0.117	0.109	0.000	-0.028
JUL	SEN CL	0.010	1.082	0.000	-1.421	-0.079	-2.450	6.523	0.359	5.618	6.422	0.000	16.066
	LAT CL					0.012			0.344		0.000	0.000	0.356
	HEATNG	-0.101	-0.108	0.000	-0.055	-0.021	-0.193	0.107	0.055	0.139	0.132	0.000	-0.045
AUG	SEN CL	0.165	0.810	0.000	-1.219	-0.072	-1.929	5.613	0.354	5.595	6.393	0.000	15.710
	LAT CL					0.028			0.336		0.000	0.000	0.364
	HEATNG	-0.460	-0.540	0.000	-0.216	-0.035	-0.850	0.407	0.177	0.604	0.586	0.000	-0.327
SEP	SEN CL	-0.298	-0.057	0.000	-0.999	-0.029	-2.760	4.415	0.217	4.928	5.718	0.000	11.134
	LAT CL					0.005			0.162		0.000	0.000	0.167
	HEATNG	-1.267	-1.352	0.000	-0.543	-0.162	-2.388	0.743	0.300	1.475	1.480	0.000	-1.715
OCT	SEN CL	-0.993	-0.926	0.000	-0.875	-0.011	-3.108	2.886	0.104	4.257	5.049	0.000	6.383
	LAT CL					0.001			0.030		0.000	0.000	0.031
	HEATNG	-2.106	-2.171	0.000	-0.907	-0.224	-3.922	0.655	0.344	2.285	2.419	0.000	-3.627
NOV	SEN CL	-1.160	-1.175	0.000	-0.763	-0.004	-2.765	1.362	0.071	3.163	3.783	0.000	2.510
	LAT CL					0.000			0.014		0.000	0.000	0.014
	HEATNG	-3.265	-3.421	0.000	-1.481	-0.199	-5.980	0.861	0.367	3.584	3.948	0.000	-5.587
DEC	SEN CL	-0.875	-0.973	0.000	-0.598	0.000	-2.126	0.978	0.038	2.141	2.575	0.000	1.160
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-17.486	-18.048	0.000	-9.269	-1.724	-32.868	8.441	2.973	18.892	19.867	0.000	-29.223
TOT	SEN CL	-7.988	-3.090	0.000	-13.556	-0.303	-32.380	41.980	1.832	48.476	56.854	0.000	91.825
	LAT CL					0.050			1.224		0.000	0.000	1.274

REPORT- LS-F BUILDING MONTHLY LOAD COMPONENTS IN MBTU WEATHER FILE- SEATTLE SEATTLE-T WA

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
	HEATNG	-3.422	-3.499	0.000	-1.713	-0.243	-6.349	1.026	0.369	3.562	3.925	0.000	-6.345
JAN	SEN CL	-0.965	-0.979	0.000	-0.692	0.000	-2.230	0.906	0.036	2.162	2.598	0.000	0.836
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-2.457	-2.506	0.000	-1.378	-0.215	-4.649	1.071	0.321	2.435	2.608	0.000	-4.770
FEB	SEN CL	-1.001	-0.973	0.000	-0.967	0.000	-2.627	1.704	0.050	2.718	3.261	0.000	2.166
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-1.856	-1.887	0.000	-1.226	-0.233	-3.565	1.080	0.329	1.925	1.969	0.000	-3.464
MAR	SEN CL	-1.113	-0.821	0.000	-1.387	-0.003	-3.344	2.882	0.080	3.801	4.549	0.000	4.644
	LAT CL					0.000			0.008		0.000	0.000	0.008
	HEATNG	-1.250	-1.250	0.000	-0.875	-0.173	-2.434	1.018	0.276	1.340	1.325	0.000	-2.022
APR	SEN CL	-0.822	-0.197	0.000	-1.566	-0.011	-3.175	4.011	0.109	4.251	5.040	0.000	7.641
	LAT CL					0.000			0.036		0.000	0.000	0.036
	HEATNG	-0.872	-0.870	0.000	-0.595	-0.132	-1.697	0.937	0.254	0.996	0.961	0.000	-1.017
MAY	SEN CL	-0.546	0.430	0.000	-1.562	-0.026	-3.054	5.147	0.155	4.730	5.558	0.000	10.832
	LAT CL					0.001			0.080		0.000	0.000	0.080
	HEATNG	-0.341	-0.351	0.000	-0.227	-0.072	-0.669	0.414	0.134	0.430	0.404	0.000	-0.277
JUN	SEN CL	-0.391	0.689	0.000	-1.507	-0.067	-2.813	5.553	0.259	5.111	5.906	0.000	12.741
	LAT CL					0.002			0.215		0.000	0.000	0.217
	HEATNG	-0.087	-0.093	0.000	-0.054	-0.016	-0.171	0.121	0.045	0.117	0.109	0.000	-0.028
JUL	SEN CL	0.010	1.082	0.000	-1.421	-0.079	-2.450	6.523	0.359	5.618	6.422	0.000	16.066
	LAT CL					0.012			0.344		0.000	0.000	0.356
	HEATNG	-0.101	-0.108	0.000	-0.055	-0.021	-0.193	0.107	0.055	0.139	0.132	0.000	-0.045
AUG	SEN CL	0.165	0.810	0.000	-1.219	-0.072	-1.929	5.613	0.354	5.595	6.393	0.000	15.710
	LAT CL					0.028			0.336		0.000	0.000	0.364
	HEATNG	-0.460	-0.540	0.000	-0.216	-0.035	-0.850	0.407	0.177	0.604	0.586	0.000	-0.327
SEP	SEN CL	-0.298	-0.057	0.000	-0.999	-0.029	-2.760	4.415	0.217	4.928	5.718	0.000	11.134
	LAT CL					0.005			0.162		0.000	0.000	0.167
	HEATNG	-1.267	-1.352	0.000	-0.543	-0.162	-2.388	0.743	0.300	1.475	1.480	0.000	-1.715
OCT	SEN CL	-0.993	-0.926	0.000	-0.875	-0.011	-3.108	2.886	0.104	4.257	5.049	0.000	6.383
	LAT CL					0.001			0.030		0.000	0.000	0.031
	HEATNG	-2.106	-2.171	0.000	-0.907	-0.224	-3.922	0.655	0.344	2.285	2.419	0.000	-3.627
NOV	SEN CL	-1.160	-1.175	0.000	-0.763	-0.004	-2.765	1.362	0.071	3.163	3.783	0.000	2.510
	LAT CL					0.000			0.014		0.000	0.000	0.014
	HEATNG	-3.265	-3.421	0.000	-1.481	-0.199	-5.980	0.861	0.367	3.584	3.948	0.000	-5.587
DEC	SEN CL	-0.875	-0.973	0.000	-0.598	0.000	-2.126	0.978	0.038	2.141	2.575	0.000	1.160
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-17.486	-18.048	0.000	-9.269	-1.724	-32.868	8.441	2.973	18.892	19.867	0.000	-29.223
TOT	SEN CL	-7.988	-3.090	0.000	-13.556	-0.303	-32.380	41.980	1.832	48.476	56.854	0.000	91.825
	LAT CL					0.050			1.224		0.000	0.000	1.274

SPACE 1-Tenant-1 Pizza

	- - - - L I G H T I N G - - - -		E Q U I P M E N T - - - - - - - - - -	P R O C E S S - - - - - - - - -		
MONTH	TASK LIGHTING (KWH)	TOTAL LIGHTING (KWH)	GENERAL EQUIPMENT (KWH)	PROCESS ELECTRIC (KWH)	PROCESS GAS (MBTU)	PROCESS HOT WATER (MBTU)
JAN	0.00	1680.58	1913.77	0.00	0.0000	0.0000
FEB	0.00	1510.03	1719.71	0.00	0.0000	0.0000
MAR	0.00	1677.26	1909.77	0.00	0.0000	0.0000
APR	0.00	1637.43	1864.20	0.00	0.0000	0.0000
MAY	0.00	1677.26	1909.77	0.00	0.0000	0.0000
JUN	0.00	1623.73	1849.09	0.00	0.0000	0.0000
JUL	0.00	1680.58	1913.77	0.00	0.0000	0.0000
AUG	0.00	1677.26	1909.77	0.00	0.0000	0.0000
SEP	0.00	1623.73	1849.09	0.00	0.0000	0.0000
OCT	0.00	1680.58	1913.77	0.00	0.0000	0.0000
NOV	0.00	1593.02	1814.85	0.00	0.0000	0.0000
DEC	0.00	1680.58	1913.77	0.00	0.0000	0.0000
ANNUAL	0.00	19742.25	22480.98	0.00	0.0000	0.0000

BUILDING

	- - - - L I G H T I N G - - - -		E Q U I P M E N T - - - - - - - - - -	P R O C E S S - - - - - - - - -		
MONTH	TASK LIGHTING (KWH)	TOTAL LIGHTING (KWH)	GENERAL EQUIPMENT (KWH)	PROCESS ELECTRIC (KWH)	PROCESS GAS (MBTU)	PROCESS HOT WATER (MBTU)
JAN	0.00	1680.58	1913.77	0.00	0.0000	0.0000
FEB	0.00	1510.03	1719.71	0.00	0.0000	0.0000
MAR	0.00	1677.26	1909.77	0.00	0.0000	0.0000
APR	0.00	1637.43	1864.20	0.00	0.0000	0.0000
MAY	0.00	1677.26	1909.77	0.00	0.0000	0.0000
JUN	0.00	1623.73	1849.09	0.00	0.0000	0.0000
JUL	0.00	1680.58	1913.77	0.00	0.0000	0.0000
AUG	0.00	1677.26	1909.77	0.00	0.0000	0.0000
SEP	0.00	1623.73	1849.09	0.00	0.0000	0.0000
OCT	0.00	1680.58	1913.77	0.00	0.0000	0.0000
NOV	0.00	1593.02	1814.85	0.00	0.0000	0.0000
DEC	0.00	1680.58	1913.77	0.00	0.0000	0.0000
ANNUAL	0.00	19742.25	22480.98	0.00	0.0000	0.0000

DATA FOR SPACE 1-Tenant-1 Pizza

MONTH	NUMBER OF HOURS MANAGEMENT WOULD BE EMPLOYED	AVERAGE DAILY SOLAR RADIATION INTO SPACE (BTU/DAY)	MAXIMUM HOURLY SOLAR RADIATION INTO SPACE (BTU/HR)
JAN	47.	62524.863	22474.367
FEB	72.	99730.516	26061.910
MAR	82.	127491.617	28327.787
APR	105.	168061.422	28732.205
MAY	101.	197850.469	31143.812
JUN	75.	198255.062	26669.855
JUL	148.	214868.625	28308.523
AUG	153.	183750.266	27964.295
SEP	135.	160544.844	28352.529
OCT	102.	115794.070	27894.729
NOV	42.	67063.617	23941.041
DEC	53.	59410.461	22250.350
ANNUAL	1115.	138144.047	31143.812

REPORT- SV-A SYSTEM DESIGN PARAMETERS SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
SYSTEM-1	PSZ	1.000	2964.0	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)
4121.	3.231	2.4	0.	0.000	0.0	0.036	155.866	0.616	-89.241	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
1-Tenant-1 Pizza	4121.	0.	0.000	1.000	150.	0.00	0.00	87.90	0.00	-92.48	1.0

REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000				0.000	0.000				0.000	5523.	10.759
FEB	0.00000				0.000	0.000				0.000	4966.	11.459
MAR	0.00000				0.000	0.000				0.000	5511.	11.639
APR	0.00000				0.000	0.000				0.000	5471.	14.675
MAY	0.00000				0.000	0.000				0.000	5698.	15.105
JUN	0.00000				0.000	0.000				0.000	5661.	15.593
JUL	0.00000				0.000	0.000				0.000	6244.	16.520
AUG	0.00000				0.000	0.000				0.000	6405.	16.666
SEP	0.00000				0.000	0.000				0.000	5592.	15.919
OCT	0.00000				0.000	0.000				0.000	5535.	12.278
NOV	0.00000				0.000	0.000				0.000	5254.	13.166
DEC	0.00000				0.000	0.000				0.000	5523.	10.759
TOTAL	0.000					0.000					67379.	
MAX					0.000					0.000		16.666

MAXIMUM DAILY INTEGRATED COOLING LOAD (DES DAY) 0.000 (KBTU)
MAXIMUM DAILY INTEGRATED COOLING LOAD (WTH FILE) 0.000 (KBTU)

REPORT- SS-E PLANT MONTHLY LOAD HOURS FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - - - - - - - - - - - N U M B E R O F H O U R S - - - - - - - - - - - - - - - - - -										--COINCIDENT LOADS--	
MONTH	HOURS COOLING LOAD	HOURS HEATING LOAD	HOURS COINCIDENT COOL-HEAT LOAD	HOURS FLOATING	HOURS HEATING AVAIL.	HOURS COOLING AVAIL.	HOURS FANS ON	HOURS FANS CYCLE ON	HOURS NIGHT VENTING	HOURS FLOATING WHEN FANS ON	HEATING LOAD AT COOLING PEAK (KBTU/HR)	ELECTRIC LOAD AT COOLING PEAK (KW)
JAN	0	208	0	536	744	744	597	0	0	389	0.000	5.810
FEB	2	106	0	564	672	672	537	0	0	429	0.000	5.810
MAR	4	9	0	731	744	744	595	0	0	582	0.000	5.810
APR	36	6	0	678	720	720	580	0	0	538	0.000	4.520
MAY	75	1	0	668	744	744	595	0	0	519	0.000	4.950
JUN	148	0	0	572	720	720	577	0	0	429	0.000	4.520
JUL	248	0	0	496	744	744	597	0	0	349	0.000	4.520
AUG	287	0	0	457	744	744	595	0	0	308	0.000	4.950
SEP	110	0	0	610	720	720	577	0	0	467	0.000	4.520
OCT	10	1	0	733	744	744	597	0	0	586	0.000	5.810
NOV	4	36	0	680	720	720	569	0	0	529	0.000	5.810
DEC	0	141	0	603	744	744	597	0	0	456	0.000	5.810
ANNUAL	924	508	0	7328	8760	8760	7013	0	0	5581		

REPORT- SS-M FAN ELECTRIC ENERGY FOR PLANT PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	FAN ELECTRIC ENERGY DURING HEATING (KWH)	FAN ELECTRIC ENERGY DURING COOLING (KWH)	FAN ELECTRIC ENERGY DURING HEATING-COOLING (KWH)	FAN ELECTRIC ENERGY DURING FLOATING (KWH)
JAN	672.018	0.000	0.000	1256.800
FEB	342.472	6.462	0.000	1386.033
MAR	29.078	12.923	0.000	1880.351
APR	19.385	116.311	0.000	1738.194
MAY	3.231	242.315	0.000	1676.808
JUN	0.000	478.168	0.000	1386.033
JUL	0.000	801.252	0.000	1127.566
AUG	0.000	927.254	0.000	995.102
SEP	0.000	355.395	0.000	1508.805
OCT	3.231	32.309	0.000	1893.274
NOV	116.311	12.923	0.000	1709.117
DEC	455.552	0.000	0.000	1473.266
ANNUAL	1641.269	2985.332	0.000	18030.412

TANK SIZE is 30.0 (GAL) HEATER CAP = 17.516 (KBTU/HR) FLOW RATE = 0.208 (GAL/MIN) PUMP = 0.000 (KW)

MONTH	SUM PEAK	UNIT LOAD (MBTU) (KBTU/HR)	ENERGY USE (MBTU) (KBTU/HR)	RCV EN USE (MBTU) (KBTU/HR)	PUMP ENERGY (KWH) (KW)	Number of hours within each PART LOAD range 00-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100+	TOTAL RUN HOURS
JAN	SUM	1.707	3.328	0.000	0.000	240	319	185	0	0	0	0	0	0	0	0	744
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	31/20	31/20	31/24	31/24												
FEB	SUM	1.534	2.994	0.000	0.000	219	286	167	0	0	0	0	0	0	0	0	672
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	28/20	28/20	28/24	28/24												
MAR	SUM	1.703	3.321	0.000	0.000	242	316	186	0	0	0	0	0	0	0	0	744
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	31/20	31/20	31/24	31/24												
APR	SUM	1.661	3.237	0.000	0.000	230	310	180	0	0	0	0	0	0	0	0	720
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	30/20	30/20	30/ 1	30/ 1												
MAY	SUM	1.703	3.321	0.000	0.000	242	316	186	0	0	0	0	0	0	0	0	744
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	30/20	30/20	31/ 1	31/ 1												
JUN	SUM	1.649	3.217	0.000	0.000	233	308	179	0	0	0	0	0	0	0	0	720
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	30/20	30/20	30/ 1	30/ 1												
JUL	SUM	1.707	3.328	0.000	0.000	240	319	185	0	0	0	0	0	0	0	0	744
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	31/20	31/20	31/ 1	31/ 1												
AUG	SUM	1.703	3.321	0.000	0.000	242	316	186	0	0	0	0	0	0	0	0	744
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	29/20	29/20	31/ 1	31/ 1												
SEP	SUM	1.649	3.217	0.000	0.000	233	308	179	0	0	0	0	0	0	0	0	720
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	30/20	30/20	30/ 1	30/ 1												
OCT	SUM	1.707	3.328	0.000	0.000	240	319	185	0	0	0	0	0	0	0	0	744
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	31/20	31/20	31/24	31/24												
NOV	SUM	1.621	3.170	0.000	0.000	241	301	178	0	0	0	0	0	0	0	0	720
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	28/20	28/20	30/24	30/24												
DEC	SUM	1.707	3.328	0.000	0.000	240	319	185	0	0	0	0	0	0	0	0	744
	PEAK	4.372	7.936	0.000	0.000												
	DAY/HR	31/20	31/20	31/24	31/24												
YR	SUM	20.051	39.112	0.000	0.000	2842	3737	2181	0	0	0	0	0	0	0	0	8760
	PEAK	4.372	7.936	0.000	0.000												
	MON/DAY	12/31	12/31	12/31	12/31												

REPORT- SS-Q HEAT PUMP COOLING SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)		INDOOR FAN ENERGY (MBTU)
JAN	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.145
FEB	0.	0.012	0.004	0.000	0.000	0.000	0.000	0.000	0.000	2.387
MAR	1.	0.021	0.006	0.000	0.000	0.000	0.000	0.000	0.000	3.253
APR	10.	1.118	0.327	0.000	0.000	0.000	0.000	0.000	0.000	3.363
MAY	20.	2.283	0.643	0.000	0.000	0.000	0.000	0.000	0.000	3.688
JUN	40.	3.890	1.106	0.000	0.000	0.000	0.000	0.000	0.000	3.997
JUL	73.	8.784	2.458	0.000	0.000	0.000	0.000	0.000	0.000	4.659
AUG	87.	10.731	3.057	0.000	0.000	0.000	0.000	0.000	0.000	4.863
SEP	31.	3.187	0.871	0.000	0.000	0.000	0.000	0.000	0.000	3.788
OCT	2.	0.134	0.040	0.000	0.000	0.000	0.000	0.000	0.000	3.341
NOV	1.	0.087	0.025	0.000	0.000	0.000	0.000	0.000	0.000	2.961
DEC	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.514
0ANNUAL	266.	30.249	8.536	0.000	0.000	0.000	0.000	0.000	0.000	40.959

0CSPF (WITH PARASITICS) = 0.61 (KBTU/HR)
0CSPF (WITHOUT PARASITICS) = 3.54 (BTU/BTU)

REPORT- SS-Q HEAT PUMP HEATING SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)	DEFROST LOAD (MBTU)	INDOOR FAN ENERGY (MBTU)
JAN	19.	-1.676	2.673	0.000	0.000	0.000	0.000	0.000	0.000	4.438
FEB	10.	-0.889	1.408	0.000	0.000	0.000	0.000	0.000	0.000	3.534
MAR	0.	-0.007	0.028	0.000	0.000	0.000	0.000	0.000	0.000	3.308
APR	0.	-0.001	0.014	0.000	0.000	0.000	0.000	0.000	0.000	3.032
MAY	0.	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	2.872
JUN	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.365
JUL	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.924
AUG	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.698
SEP	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.575
OCT	0.	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	3.242
NOV	1.	-0.125	0.243	0.000	0.000	0.000	0.000	0.000	0.000	3.314
DEC	11.	-0.961	1.580	0.000	0.000	0.000	0.000	0.000	0.000	4.069
0ANNUAL	41.	-3.659	5.951	0.000	0.000	0.000	0.000	0.000	0.000	36.372

0HSPF (WITH PARASITICS)   =   0.95 (KBTU/HR)
0HSPF (WITHOUT PARASITICS) =   0.61 (BTU/BTU)

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000					0.000	-1.676	7	9	26.F	26.F	-20.149	5523.	10.759
FEB	0.01230	27	15	68.F	54.F	8.106	-0.889	19	8	23.F	21.F	-23.600	4966.	11.459
MAR	0.02123	18	16	69.F	51.F	10.186	-0.007	5	8	36.F	36.F	-2.943	5511.	11.639
APR	1.11803	27	16	81.F	63.F	51.166	-0.001	18	23	39.F	38.F	-0.445	5471.	14.675
MAY	2.28335	15	17	75.F	55.F	55.254	0.000	23	1	46.F	44.F	-0.138	5698.	15.105
JUN	3.89044	28	18	80.F	62.F	58.306	0.000					0.000	5661.	15.593
JUL	8.78356	15	18	74.F	64.F	75.658	0.000					0.000	6244.	16.520
AUG	10.73120	30	14	74.F	65.F	67.411	0.000					0.000	6405.	16.666
SEP	3.18748	23	15	74.F	64.F	71.435	0.000					0.000	5592.	15.919
OCT	0.13437	4	16	71.F	53.F	26.522	0.000	23	1	47.F	46.F	-0.258	5535.	12.278
NOV	0.08677	4	14	70.F	61.F	28.417	-0.125	24	8	35.F	34.F	-9.271	5254.	13.166
DEC	0.00000					0.000	-0.961	26	9	30.F	30.F	-19.761	5523.	10.759
TOTAL	30.249						-3.659						67379.	
MAX						75.658						-23.600		16.666

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- -Z O N E C O O L I N G- -		- -Z O N E H E A T I N G -		- - B A S E B O A R D S - -		--PREHEAT OR FURN FAN ELEC--	
MONTH	COOLING BY ZONE COILS OR NAT VENTIL (MBTU)	MAXIMUM COOLING BY ZONE COILS OR NAT VENTIL (KBTU/HR)	HEATING BY ZONE COILS OR FURNACE (MBTU)	MAXIMUM HEATING BY ZONE COILS OR FURNACE (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING ENERGY (KBTU/HR)	PREHEAT COIL ENERGY OR ELEC FOR FURN FAN (MBTU)	MAXIMUM PREHEAT COIL ENERGY OR ELEC FOR FURN FAN (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
0TOTAL	0.000		0.000		0.000		0.000	
0MAX		0.000		0.000		0.000		0.000

REPORT- SS-C SYSTEM MONTHLY LOAD HOURS FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	HOURS COOLING LOAD	HOURS HEATING LOAD	HOURS COINCIDENT COOL-HEAT LOAD	HOURS FLOATING	HOURS HEATING AVAIL.	HOURS COOLING AVAIL.	HOURS FANS ON	HOURS FANS CYCLE ON	HOURS NIGHT VENTING	HOURS FLOATING WHEN FANS ON	HEATING LOAD AT COOLING PEAK (KBTU/HR)	ELECTRIC LOAD AT COOLING PEAK (KW)
	- - - - - - - - - - - - - - - - - - N U M B E R O F H O U R S - - - - - - - - - - - - - - - - - -										--COINCIDENT LOADS--	
JAN	0	208	0	536	744	744	597	0	0	389	0.000	5.810
FEB	2	106	0	564	672	672	537	0	0	429	0.000	11.459
MAR	4	9	0	731	744	744	595	0	0	582	0.000	11.639
APR	36	6	0	678	720	720	580	0	0	538	0.000	13.406
MAY	75	1	0	668	744	744	595	0	0	519	0.000	15.105
JUN	148	0	0	572	720	720	577	0	0	429	0.000	15.593
JUL	248	0	0	496	744	744	597	0	0	349	0.000	16.227
AUG	287	0	0	457	744	744	595	0	0	308	0.000	14.722
SEP	110	0	0	610	720	720	577	0	0	467	0.000	15.919
OCT	10	1	0	733	744	744	597	0	0	586	0.000	12.217
NOV	4	36	0	680	720	720	569	0	0	529	0.000	13.166
DEC	0	141	0	603	744	744	597	0	0	456	0.000	5.810
ANNUAL	924	508	0	7328	8760	8760	7013	0	0	5581		

REPORT- SS-H SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- -F A N E L E C- - -		- -F U E L H E A T- -		- -F U E L C O O L- -		-E L E C H E A T- -		-E L E C C O O L- -	
MONTH	FAN ENERGY (KWH)	MAXIMUM FAN LOAD (KW)	GAS OIL ENERGY (MBTU)	MAXIMUM GAS OIL LOAD (KBTU/HR)	GAS OIL ENERGY (MBTU)	MAXIMUM GAS OIL LOAD (KBTU/HR)	ELECTRIC ENERGY (KWH)	MAXIMUM ELECTRIC LOAD (KW)	ELECTRIC ENERGY (KWH)	MAXIMUM ELECTRIC LOAD (KW)
JAN	1929.	3.231	2.673	28.784	0.000	0.000	0.	0.000	0.	0.000
FEB	1735.	3.231	1.408	33.235	0.000	0.000	0.	0.000	1.	0.700
MAR	1922.	3.231	0.028	6.044	0.000	0.000	0.	0.000	2.	0.880
APR	1874.	3.231	0.014	2.665	0.000	0.000	0.	0.000	96.	4.366
MAY	1922.	3.231	0.002	2.248	0.000	0.000	0.	0.000	188.	4.346
JUN	1864.	3.231	0.000	0.000	0.000	0.000	0.	0.000	324.	4.833
JUL	1929.	3.231	0.000	0.000	0.000	0.000	0.	0.000	720.	5.761
AUG	1922.	3.231	0.000	0.000	0.000	0.000	0.	0.000	896.	5.920
SEP	1864.	3.231	0.000	0.000	0.000	0.000	0.	0.000	255.	5.159
OCT	1929.	3.231	0.002	2.411	0.000	0.000	0.	0.000	12.	2.317
NOV	1838.	3.231	0.243	14.515	0.000	0.000	0.	0.000	7.	2.407
DEC	1929.	3.231	1.580	28.282	0.000	0.000	0.	0.000	0.	0.000
0TOTAL	22656.		5.951		0.000		0.		2501.	
0MAX		3.231		33.235		0.000		0.000		5.920

REPORT- SS-I SYSTEM MONTHLY SENSIBLE LATENT SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	SENSIBLE COOLING ENERGY (MBTU)	LATENT COOLING ENERGY (MBTU)	MAX TOTAL COOLING ENERGY (KBTU/HR)	SENSIBLE HEAT RATIO AT MAX	TIME OF MAX DY	TIME OF MAX HR	SENSIBLE HEATING ENERGY (MBTU)	LATENT HEATING ENERGY (MBTU)	MAX TOTAL HEATING ENERGY (KBTU/HR)
JAN	0.00000	0.00000	0.000				-1.67591	0.00000	-20.14869
FEB	0.01230	0.00000	8.106	1.000	27	15	-0.88855	0.00000	-23.600
MAR	0.02123	0.00000	10.186	1.000	18	16	-0.00703	0.00000	-2.943
APR	1.09896	0.01907	51.166	0.988	27	16	-0.00102	0.00000	-0.445
MAY	2.07943	0.20392	55.254	1.000	15	17	-0.00014	0.00000	-0.138
JUN	3.75047	0.13997	58.306	0.995	28	18	0.00000	0.00000	0.000
JUL	7.88188	0.90168	75.658	0.671	15	18	0.00000	0.00000	0.000
AUG	9.83937	0.89184	67.411	0.615	30	14	0.00000	0.00000	0.000
SEP	2.66814	0.51934	71.435	0.662	23	15	0.00000	0.00000	0.000
OCT	0.13372	0.00065	26.522	1.000	4	16	-0.00026	0.00000	-0.258
NOV	0.06361	0.02316	28.417	0.731	4	14	-0.12508	0.00000	-9.271
DEC	0.00000	0.00000	0.000				-0.96098	0.00000	-19.76110
TOTAL	27.549	2.700					-3.659	0.000	
MAX			75.658	0.671					-23.600

REPORT- SS-J SYSTEM PEAK HEATING AND COOLING DAYS FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - C O O L I N G - - - - -				- - - H E A T I N G - - -			D A Y C O O L I N G P E A K			
	JUL 15				FEB 19			JUL 24			
HOUR	HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP	HOURLY HEATING LOAD (KBTU)	DRY-BULB TEMP	WET-BULB TEMP	HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP
1	0.000	0.000	61.F	57.F	-20.043	25.F	24.F	0.000	0.000	65.F	57.F
2	0.000	0.000	59.F	57.F	-21.582	24.F	23.F	0.000	0.000	63.F	56.F
3	0.000	0.000	59.F	57.F	-21.444	26.F	24.F	0.000	0.000	62.F	56.F
4	0.000	0.000	58.F	56.F	0.000	23.F	22.F	0.000	0.000	62.F	56.F
5	0.000	0.000	57.F	56.F	0.000	22.F	21.F	0.000	0.000	60.F	55.F
6	0.000	0.000	58.F	56.F	0.000	22.F	21.F	0.000	0.000	63.F	57.F
7	0.000	0.000	58.F	56.F	0.000	23.F	22.F	0.000	0.000	66.F	59.F
8	0.000	0.000	60.F	57.F	-23.600	23.F	21.F	25.200	0.745	71.F	61.F
9	0.000	0.000	62.F	58.F	-21.124	26.F	24.F	40.545	0.968	75.F	62.F
10	0.000	0.000	64.F	59.F	-16.104	28.F	25.F	48.269	0.970	76.F	63.F
11	0.000	0.000	65.F	60.F	-6.477	29.F	25.F	53.430	0.977	80.F	64.F
12	15.563	0.658	67.F	61.F	-2.921	32.F	28.F	53.906	0.974	79.F	64.F
13	33.118	0.656	69.F	62.F	0.000	35.F	29.F	57.853	0.979	83.F	65.F
14	50.845	0.652	71.F	63.F	0.000	36.F	29.F	61.519	0.985	85.F	65.F
15	57.717	0.676	72.F	63.F	0.000	36.F	29.F	63.830	0.984	87.F	66.F
16	63.222	0.699	73.F	63.F	0.000	37.F	30.F	61.090	0.984	84.F	65.F
17	75.658	0.671	74.F	64.F	0.000	35.F	29.F	58.660	0.988	83.F	64.F
18	67.584	0.651	73.F	64.F	0.000	32.F	28.F	61.721	0.983	84.F	65.F
19	50.085	0.652	71.F	63.F	0.000	30.F	26.F	56.932	0.992	82.F	63.F
20	7.389	0.645	66.F	61.F	0.000	30.F	26.F	49.150	0.979	75.F	62.F
21	0.000	0.000	65.F	61.F	0.000	29.F	25.F	47.430	0.779	73.F	62.F
22	0.000	0.000	63.F	59.F	-0.941	29.F	26.F	13.043	0.788	69.F	60.F
23	0.000	0.000	60.F	58.F	-7.378	30.F	26.F	0.000	0.000	67.F	60.F
24	0.000	0.000	60.F	58.F	-11.687	29.F	25.F	0.000	0.000	62.F	58.F
SUM								752.578			
MAX	75.658				-23.600						

SYSTEM-TYPE	PSZ	SQFT/TON	470.1
COOLING PEAK	25.53 (BTU/HR- SQFT)	HEATING PEAK	-7.96 (BTU/HR- SQFT)
SUPPLY AIR PEAK FLOW	1.39 (CFM/SQFT)	MIN-OA/PERSON	15.00 (CFM)
OA FRAC AT CLG PEAK	1.000	OA FRAC AT HTG PEAK	0.036

** ASTERISKS INDICATE HOURS LOADS NOT MET*

REPORT- SS-K SPACE TEMPERATURE SUMMARY SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	AVERAGE SPACE TEMP					AVERAGE TEMPERATURE DIFFERENCE BETWEEN OUTDOOR& ROOM AIR			SUMMED TEMP DIFFERENCE BETWEEN OUTDOOR& ROOM AIR		
MONTH	ALL HOURS (F)	COOLING HOURS (F)	HEATING HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	ALL HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	HEATING HOURS (F)	ALL HOURS (F)	HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
JAN	71.16		70.75	71.88	68.23	-31.07	-31.35	-29.96	297.47	963.26	0.00002
FEB	71.99	74.72	70.76	72.71	69.09	-29.51	-29.50	-29.54	160.05	826.15	0.00000
MAR	73.13	74.66	72.84	73.72	70.74	-26.14	-25.63	-28.18	11.52	810.46	-0.00003
APR	73.75	74.82	73.98	74.16	72.04	-22.21	-21.29	-26.05	7.24	670.88	0.00000
MAY	74.17	74.88	73.96	74.43	73.11	-18.81	-17.58	-23.75	1.17	583.79	0.00005
JUN	74.48	74.88		74.56	74.16	-14.42	-12.94	-20.42		435.28	0.00003
JUL	74.72	74.92		74.67	74.94	-10.92	-9.16	-18.11		361.46	0.00021
AUG	74.73	74.90		74.67	74.99	-8.90	-6.97	-16.61		326.09	0.00039
SEP	74.39	74.88		74.50	73.92	-15.23	-14.03	-20.07		457.65	0.00008
OCT	73.84	74.77	73.94	74.19	72.43	-21.28	-20.72	-23.55	1.12	659.68	-0.00002
NOV	72.75	74.77	70.87	73.31	70.64	-26.23	-26.35	-25.80	47.18	786.94	-0.00001
DEC	71.48		70.82	72.17	68.67	-29.74	-29.97	-28.77	192.34	921.83	0.00001
ANNUAL	73.39	74.89	70.87	73.75	71.92	-21.16	-20.40	-24.21	718.10	7803.47	0.00006

MONTH	FAN ELEC DURING HEATING (KWH)	FAN ELEC DURING COOLING (KWH)	FAN ELEC DURING HEAT & COOL (KWH)	FAN ELEC DURING FLOATING (KWH)	Number of hours within each PART LOAD range 00-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100+	TOTAL RUN HOURS
JAN	672.018	0.000	0.000	1256.800	0	0	0	0	0	0	0	0	0	0	597	597
FEB	342.472	6.462	0.000	1386.033	0	0	0	0	0	0	0	0	0	0	537	537
MAR	29.078	12.923	0.000	1880.351	0	0	0	0	0	0	0	0	0	0	595	595
APR	19.385	116.311	0.000	1738.194	0	0	0	0	0	0	0	0	0	0	580	580
MAY	3.231	242.315	0.000	1676.808	0	0	0	0	0	0	0	0	0	0	595	595
JUN	0.000	478.168	0.000	1386.033	0	0	0	0	0	0	0	0	0	0	577	577
JUL	0.000	801.252	0.000	1127.566	0	0	0	0	0	0	0	0	0	0	597	597
AUG	0.000	927.254	0.000	995.102	0	0	0	0	0	0	0	0	0	0	595	595
SEP	0.000	355.395	0.000	1508.805	0	0	0	0	0	0	0	0	0	0	577	577
OCT	3.231	32.309	0.000	1893.274	0	0	0	0	0	0	0	0	0	0	597	597
NOV	116.311	12.923	0.000	1709.117	0	0	0	0	0	0	0	0	0	0	569	569
DEC	455.552	0.000	0.000	1473.266	0	0	0	0	0	0	0	0	0	0	597	597
ANNUAL	1641.269	2985.332	0.000	18030.412	0	0	0	0	0	0	0	0	0	0	7013	7013

TOTAL HOURS AT RELATIVE HUMIDITY LEVEL AND TIME OF DAY

HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
90-100	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
80-89	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
70-79	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
60-69	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
50-59	21	15	0	0	0	0	17	18	19	19	26	22	19	9	9	7	10	12	16	17	20	20	28	26	350
40-49	79	86	13	0	0	0	62	71	81	98	87	83	75	74	62	64	64	73	81	80	80	83	77	83	1556
30-39	139	147	51	0	0	0	56	92	99	128	135	141	140	150	160	156	147	143	134	137	129	120	125	132	2661
20-29	100	93	75	0	0	0	6	50	62	76	99	101	113	114	111	117	119	113	107	100	107	114	112	100	1989
10-19	24	23	21	0	0	0	0	21	19	15	17	18	16	17	22	19	24	23	26	29	27	26	21	22	430
0-09	2	1	2	0	0	0	0	0	0	1	1	0	2	1	1	2	1	1	1	2	2	2	2	2	26

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*                                                            *
*  NOTE  1)THE RELATIVE HUMIDITY COUNTS ARE MADE ONLY FOR    *
*          THE HOURS WHEN THE FANS ARE ON                    *
*                                                            *
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REPORT- SS-P LOAD, ENERGY AND PART LOAD HEATING IN SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

UNIT TYPE is PSZ HEATING-CAPACITY = -89.241 (KBTU/HR) HEATING-EIR = 0.370 (BTU/BTU) SUPPLY-FLOW = 4121. (CFM)

MONTH		UNIT LOAD SUM (MBTU) PEAK (KBTU/HR)	ENERGY USE (KWH) (KW)	COMPRESSOR (KWH) (KW)	FAN ENERGY (KWH) (KW)		Number of hours within each PART LOAD range 00 10	10 20	20 30	30 40	40 50	50 60	60 70	70 80	80 90	90 100	100 +	TOTAL RUN HOURS
JAN	SUM	-1.676	0.000	0.000	1928.813	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-20.149	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	208	208
	DAY/HR	7/ 9	31/24	0/ 0	31/24													
FEB	SUM	-0.889	0.000	0.000	1734.963	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-23.600	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	106	106
	DAY/HR	19/ 8	28/24	0/ 0	28/24													
MAR	SUM	-0.007	0.000	0.000	1922.352	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-2.943	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	9	9
	DAY/HR	5/ 8	31/24	0/ 0	31/24													
APR	SUM	-0.001	0.000	0.000	1873.889	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-0.445	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	6	6
	DAY/HR	18/23	30/ 1	0/ 0	30/ 1													
MAY	SUM	0.000	0.000	0.000	1922.352	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-0.138	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	1	1
	DAY/HR	23/ 1	31/ 1	0/ 0	31/ 1													
JUN	SUM	0.000	0.000	0.000	1864.197	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	30/ 1	30/ 1	0/ 0	30/ 1													
JUL	SUM	0.000	0.000	0.000	1928.813	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/ 1	31/ 1	0/ 0	31/ 1													
AUG	SUM	0.000	0.000	0.000	1922.352	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/ 1	31/ 1	0/ 0	31/ 1													
SEP	SUM	0.000	0.000	0.000	1864.197	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	30/ 1	30/ 1	0/ 0	30/ 1													
OCT	SUM	0.000	0.000	0.000	1928.813	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-0.258	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	1	1
	DAY/HR	23/ 1	31/24	0/ 0	31/24													
NOV	SUM	-0.125	0.000	0.000	1838.350	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-9.271	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	36	36
	DAY/HR	24/ 8	30/24	0/ 0	30/24													
DEC	SUM	-0.961	0.000	0.000	1928.813	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-19.761	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	141	141
	DAY/HR	26/ 9	31/24	0/ 0	31/24													
YR	SUM	-3.659	0.000	0.000	22656.443	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-23.600	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	508	508
	MON/DAY	2/19	12/31	0/ 0	12/31													

REPORT- SS-P LOAD, ENERGY AND PART LOAD COOLING IN SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

UNIT TYPE is PSZ COOLING-CAPACITY = 155.866 (KBTU/HR) COOLING-EIR = 0.305 (BTU/BTU) SUPPLY-FLOW = 4121. (CFM)

MONTH		UNIT LOAD (MBTU) (KBTU/HR)	ENERGY USE (KWH) (KW)	COMPRESSOR (KWH) (KW)	FAN ENERGY (KWH) (KW)		00 10	10 20	20 30	30 40	40 50	50 60	60 70	70 80	80 90	90 100	100 +	TOTAL RUN HOURS
JAN	SUM	0.000	0.000	0.000	1928.813	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/24	31/24	0/ 0	31/24													
FEB	SUM	0.012	1.063	1.063	1734.963	CMP	0	0	2	0	0	0	0	0	0	0	0	2
	PEAK	8.106	0.700	0.700	3.231	FAN	0	0	0	0	0	0	0	0	0	0	2	2
	DAY/HR	27/15	27/15	27/15	28/24													
MAR	SUM	0.021	1.833	1.833	1922.352	CMP	1	0	4	0	0	0	0	0	0	0	0	5
	PEAK	10.186	0.880	0.880	3.231	FAN	0	0	0	0	0	0	0	0	0	0	4	4
	DAY/HR	18/16	18/16	18/16	31/24													
APR	SUM	1.118	95.763	95.763	1873.889	CMP	2	0	27	9	0	0	0	0	0	0	0	38
	PEAK	51.166	4.366	4.366	3.231	FAN	0	0	0	0	0	0	0	0	0	0	36	36
	DAY/HR	27/16	27/16	27/16	30/ 1													
MAY	SUM	2.283	188.333	188.333	1922.352	CMP	4	0	61	14	0	0	0	0	0	0	0	79
	PEAK	55.254	4.346	4.346	3.231	FAN	0	0	0	0	0	0	0	0	0	0	75	75
	DAY/HR	15/17	15/17	15/17	31/ 1													
JUN	SUM	3.890	323.945	323.945	1864.197	CMP	2	0	120	28	0	0	0	0	0	0	0	150
	PEAK	58.306	4.833	4.833	3.231	FAN	0	0	0	0	0	0	0	0	0	0	148	148
	DAY/HR	28/18	28/18	28/18	30/ 1													
JUL	SUM	8.784	720.324	720.324	1928.813	CMP	6	0	154	83	11	0	0	0	0	0	0	254
	PEAK	75.658	5.761	5.761	3.231	FAN	0	0	0	0	0	0	0	0	0	0	248	248
	DAY/HR	15/18	24/16	24/16	31/ 1													
AUG	SUM	10.731	895.772	895.772	1922.352	CMP	1	0	159	107	21	0	0	0	0	0	0	288
	PEAK	67.411	5.920	5.920	3.231	FAN	0	0	0	0	0	0	0	0	0	0	287	287
	DAY/HR	30/14	10/17	10/17	31/ 1													
SEP	SUM	3.187	255.146	255.146	1864.197	CMP	1	0	81	25	4	0	0	0	0	0	0	111
	PEAK	71.435	5.159	5.159	3.231	FAN	0	0	0	0	0	0	0	0	0	0	110	110
	DAY/HR	23/15	23/15	23/15	30/ 1													
OCT	SUM	0.134	11.631	11.631	1928.813	CMP	4	0	10	0	0	0	0	0	0	0	0	14
	PEAK	26.522	2.317	2.317	3.231	FAN	0	0	0	0	0	0	0	0	0	0	10	10
	DAY/HR	4/16	4/16	4/16	31/24													
NOV	SUM	0.087	7.362	7.362	1838.350	CMP	2	0	4	0	0	0	0	0	0	0	0	6
	PEAK	28.417	2.407	2.407	3.231	FAN	0	0	0	0	0	0	0	0	0	0	4	4
	DAY/HR	4/14	4/14	4/14	30/24													
DEC	SUM	0.000	0.000	0.000	1928.813	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	3.231	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/24	31/24	0/ 0	31/24													
YR	SUM	30.249	2501.172	2501.172	22656.443	CMP	23	0	622	266	36	0	0	0	0	0	0	947
	PEAK	75.658	5.920	5.920	3.231	FAN	0	0	0	0	0	0	0	0	0	0	924	924
	MON/DAY	7/15	8/10	8/10	12/31													

REPORT- SS-Q HEAT PUMP COOLING SUMMARY FOR SYSTEM-1 *WEATHER FILE- SEATTLE SEATTLE-T WA*

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)		INDOOR FAN ENERGY (MBTU)
JAN	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.145
FEB	0.	0.012	0.004	0.000	0.000	0.000	0.000	0.000	0.000	2.387
MAR	1.	0.021	0.006	0.000	0.000	0.000	0.000	0.000	0.000	3.253
APR	10.	1.118	0.327	0.000	0.000	0.000	0.000	0.000	0.000	3.363
MAY	20.	2.283	0.643	0.000	0.000	0.000	0.000	0.000	0.000	3.688
JUN	40.	3.890	1.106	0.000	0.000	0.000	0.000	0.000	0.000	3.997
JUL	73.	8.784	2.458	0.000	0.000	0.000	0.000	0.000	0.000	4.659
AUG	87.	10.731	3.057	0.000	0.000	0.000	0.000	0.000	0.000	4.863
SEP	31.	3.187	0.871	0.000	0.000	0.000	0.000	0.000	0.000	3.788
OCT	2.	0.134	0.040	0.000	0.000	0.000	0.000	0.000	0.000	3.341
NOV	1.	0.087	0.025	0.000	0.000	0.000	0.000	0.000	0.000	2.961
DEC	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.514
0ANNUAL	266.	30.249	8.536	0.000	0.000	0.000	0.000	0.000	0.000	40.959

0CSPF (WITH PARASITICS) = 0.61 (KBTU/HR)
0CSPF (WITHOUT PARASITICS) = 3.54 (BTU/BTU)

REPORT- SS-Q HEAT PUMP HEATING SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)	DEFROST LOAD (MBTU)	INDOOR FAN ENERGY (MBTU)
JAN	19.	-1.676	2.673	0.000	0.000	0.000	0.000	0.000	0.000	4.438
FEB	10.	-0.889	1.408	0.000	0.000	0.000	0.000	0.000	0.000	3.534
MAR	0.	-0.007	0.028	0.000	0.000	0.000	0.000	0.000	0.000	3.308
APR	0.	-0.001	0.014	0.000	0.000	0.000	0.000	0.000	0.000	3.032
MAY	0.	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	2.872
JUN	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.365
JUL	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.924
AUG	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.698
SEP	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.575
OCT	0.	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	3.242
NOV	1.	-0.125	0.243	0.000	0.000	0.000	0.000	0.000	0.000	3.314
DEC	11.	-0.961	1.580	0.000	0.000	0.000	0.000	0.000	0.000	4.069
0ANNUAL	41.	-3.659	5.951	0.000	0.000	0.000	0.000	0.000	0.000	36.372

0HSPF (WITH PARASITICS)   =   0.95 (KBTU/HR)
0HSPF (WITHOUT PARASITICS) =   0.61 (BTU/BTU)

Baseline Building (90.1 Appendix G) East Town Crossing Lot 1 Tenant-1 DOE-2.1E-124 Tue Jun 3 14:29:03 2025SDL RUN 1

REPORT- SS-G ZONE LOADS SUMMARY IN SYSTEM-1 FOR 1-Tenant-1 Pizza WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000				0.000	0.000				0.000	3594.	7.529
FEB	0.00000				0.000	0.000				0.000	3230.	7.529
MAR	0.00000				0.000	0.000				0.000	3587.	7.529
APR	0.00000				0.000	0.000				0.000	3502.	7.529
MAY	0.00000				0.000	0.000				0.000	3587.	7.529
JUN	0.00000				0.000	0.000				0.000	3473.	7.529
JUL	0.00000				0.000	0.000				0.000	3594.	7.529
AUG	0.00000				0.000	0.000				0.000	3587.	7.529
SEP	0.00000				0.000	0.000				0.000	3473.	7.529
OCT	0.00000				0.000	0.000				0.000	3594.	7.529
NOV	0.00000				0.000	0.000				0.000	3408.	7.529
DEC	0.00000				0.000	0.000				0.000	3594.	7.529
TOTAL	0.000					0.000					42222.	
MAX					0.000					0.000		7.529

	- - - -D E M A N D S- - - - -		- -B A S E B O A R D S- - -		- -T E M P E R A T U R E S- -		- -L O A D S N O T M E T- -	
MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	0.01412	-5.134	0.00000	0.000	74.2	69.3	0	0
FEB	0.70142	-3.337	0.00000	0.000	74.7	69.3	0	0
MAR	2.13539	-1.641	0.00000	0.000	74.7	70.4	0	0
APR	5.35954	-0.859	0.00000	0.000	75.0	70.9	0	0
MAY	8.81877	-0.406	0.00000	0.000	75.1	72.6	0	0
JUN	10.99481	-0.079	0.00000	0.000	75.2	74.0	0	0
JUL	14.26711	-0.003	0.00000	0.000	75.3	74.1	0	0
AUG	13.91679	-0.006	0.00000	0.000	75.3	74.1	0	0
SEP	9.51873	-0.137	0.00000	0.000	75.1	73.6	0	0
OCT	4.41362	-0.903	0.00000	0.000	74.8	71.9	0	0
NOV	1.02905	-2.438	0.00000	0.000	74.8	69.8	0	0
DEC	0.09032	-4.282	0.00000	0.000	74.3	69.4	0	0

TOTAL HOURS AT TEMPERATURE LEVEL AND TIME OF DAY

HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
ABOVE 85	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
80-85	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
75-80	0	0	0	0	0	0	0	0	0	2	4	7	13	29	42	45	40	28	12	0	0	0	0	0	222
70-75	364	365	162	0	0	0	141	224	281	335	360	358	352	336	323	320	325	337	353	365	365	365	365	365	6761
65-70	1	0	0	0	0	0	0	28	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	30
60-65	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
BELOW 60	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

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*                                                           *
*  NOTE  1)THE TEMPERATURE COUNTS ARE MADE ONLY FOR         *
*          THE HOURS WHEN THE FANS ARE ON                   *
*                                                           *
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E Q U I P M E N T	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL
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REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

	SITE ENERGY												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
MONTH	TOTAL HEAT LOAD (MBTU)	TOTAL COOLING LOAD (MBTU)	TOTAL ELECTR LOAD (MWH)	RCVRED ENERGY (MBTU)	WASTED RCVRABL ENERGY (MBTU)	FUEL INPUT COOLING (MBTU)	ELEC INPUT COOLING (MWH)	FUEL INPUT HEATING (MBTU)	ELEC INPUT HEATING (MWH)	FUEL INPUT ELECT (MBTU)	TOTAL FUEL INPUT (MBTU)	TOTAL SITE ENERGY (MBTU)	TOTAL SOURCE ENERGY (MBTU)
JAN	0.0	0.0	5.5	0.0	0.0	0.0	0.0	6.0	0.0	0.0	6.0	24.9	62.6
FEB	0.0	0.0	5.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	4.4	21.3	55.3
MAR	0.0	0.0	5.5	0.0	0.0	0.0	0.0	3.3	0.0	0.0	3.3	22.2	59.8
APR	0.0	0.0	5.5	0.0	0.0	0.0	0.1	3.3	0.0	0.0	3.3	21.9	59.3
MAY	0.0	0.0	5.7	0.0	0.0	0.0	0.2	3.3	0.0	0.0	3.3	22.8	61.7
JUN	0.0	0.0	5.7	0.0	0.0	0.0	0.3	3.2	0.0	0.0	3.2	22.5	61.2
JUL	0.0	0.0	6.2	0.0	0.0	0.0	0.7	3.3	0.0	0.0	3.3	24.6	67.3
AUG	0.0	0.0	6.4	0.0	0.0	0.0	0.9	3.3	0.0	0.0	3.3	25.2	68.9
SEP	0.0	0.0	5.6	0.0	0.0	0.0	0.3	3.2	0.0	0.0	3.2	22.3	60.5
OCT	0.0	0.0	5.5	0.0	0.0	0.0	0.0	3.3	0.0	0.0	3.3	22.2	60.0
NOV	0.0	0.0	5.3	0.0	0.0	0.0	0.0	3.4	0.0	0.0	3.4	21.3	57.2
DEC	0.0	0.0	5.5	0.0	0.0	0.0	0.0	4.9	0.0	0.0	4.9	23.8	61.5
TOTAL	0.0	0.0	67.4	0.0	0.0	0.0	2.5	45.1	0.0	0.0	45.1	275.0	735.1

REPORT- PS-B MONTHLY UTILITY AND FUEL USE SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	BTU/UNIT:	ELECTRICITY METER-1 3413./KWH	NATURAL-GAS METER-1 100000./THERM
JAN			
	ENERGY CONSUMPTION (UNITS/MO)	5523.2	60.0
	PEAK DEMAND (UNITS/HR OR DAY)	10.8	0.4
	PEAK DAY/HR	2/11	7/ 9
FEB			
	ENERGY CONSUMPTION (UNITS/MO)	4965.8	44.0
	PEAK DEMAND (UNITS/HR OR DAY)	11.5	0.4
	PEAK DAY/HR	27/15	19/ 8
MAR			
	ENERGY CONSUMPTION (UNITS/MO)	5511.2	33.5
	PEAK DEMAND (UNITS/HR OR DAY)	11.6	0.1
	PEAK DAY/HR	18/16	5/ 8
APR			
	ENERGY CONSUMPTION (UNITS/MO)	5471.3	32.5
	PEAK DEMAND (UNITS/HR OR DAY)	14.7	0.1
	PEAK DAY/HR	1/16	18/23
MAY			
	ENERGY CONSUMPTION (UNITS/MO)	5697.7	33.2
	PEAK DEMAND (UNITS/HR OR DAY)	15.1	0.1
	PEAK DAY/HR	15/17	1/ 8
JUN			
	ENERGY CONSUMPTION (UNITS/MO)	5661.0	32.2
	PEAK DEMAND (UNITS/HR OR DAY)	15.6	0.1
	PEAK DAY/HR	28/18	2/ 8
JUL			
	ENERGY CONSUMPTION (UNITS/MO)	6243.5	33.3
	PEAK DEMAND (UNITS/HR OR DAY)	16.5	0.1
	PEAK DAY/HR	24/16	1/ 8
AUG			
	ENERGY CONSUMPTION (UNITS/MO)	6405.2	33.2
	PEAK DEMAND (UNITS/HR OR DAY)	16.7	0.1
	PEAK DAY/HR	29/17	1/ 8
SEP			
	ENERGY CONSUMPTION (UNITS/MO)	5592.2	32.2
	PEAK DEMAND (UNITS/HR OR DAY)	15.9	0.1
	PEAK DAY/HR	23/15	2/ 8
OCT			
	ENERGY CONSUMPTION (UNITS/MO)	5534.8	33.3
	PEAK DEMAND (UNITS/HR OR DAY)	12.3	0.1
	PEAK DAY/HR	4/18	1/ 8
NOV			
	ENERGY CONSUMPTION (UNITS/MO)	5253.6	34.1
	PEAK DEMAND (UNITS/HR OR DAY)	13.2	0.2
	PEAK DAY/HR	4/14	24/ 8
DEC			
	ENERGY CONSUMPTION (UNITS/MO)	5523.2	49.1
	PEAK DEMAND (UNITS/HR OR DAY)	10.8	0.4
	PEAK DAY/HR	1/11	26/ 9
TOTAL			
	ENERGY CONSUMPTION (UNITS/YR)	67382.8	450.6
	PEAK DEMAND (UNITS/HR OR DAY)	16.7	0.4

REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- SEATTLE SEATTLE-T WA

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO 0 -- 10 -- 20 -- 30 -- 40 -- 50 -- 60 -- 70 -- 80 -- 90 -- 100 - 110+	TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (KWH)	THERMAL USED (MBTU)
		-----	------	------	------	------

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 0. 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- SEATTLE SEATTLE-T WA

ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	67382.8	100.0
LOAD SATISFIED	67382.8	100.0
TOTAL LOAD ON PLANT	67380.7	

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
ELECTRICAL LOADS	230.0	230.0	0.000	0.000	0

REPORT- PS-E MONTHLY ENERGY END-USE SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

0ELECTRICAL END-USES IN KWH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 AREA LIGHTS	1681.	1510.	1677.	1637.	1677.	1624.	1681.	1677.	1624.	1681.	1593.	1681.	19742.
MAX KW	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
DAY/HR	2/11	1/18	1/18	1/11	1/11	2/11	1/11	1/11	2/11	1/11	1/18	1/11	
0MISC EQUIPMT	1914.	1720.	1910.	1864.	1910.	1849.	1914.	1910.	1849.	1914.	1815.	1914.	22481.
MAX KW	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
DAY/HR	2/11	1/18	1/18	1/11	1/11	2/11	1/11	1/11	2/11	1/11	1/18	1/11	
0 SPACE COOL	0.	1.	2.	96.	188.	324.	720.	896.	255.	12.	7.	0.	2501.
MAX KW	0.0	0.7	0.9	4.4	4.3	4.8	5.8	5.9	5.2	2.3	2.4	0.0	5.9
DAY/HR	0/ 0	27/15	18/16	27/16	15/17	28/18	24/16	10/17	23/15	4/16	4/14	0/ 0	
0 VENT FANS	1929.	1735.	1922.	1874.	1922.	1864.	1929.	1922.	1864.	1929.	1838.	1929.	22658.
MAX KW	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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 TOTAL KWH	5523.	4966.	5511.	5471.	5698.	5661.	6243.	6405.	5592.	5535.	5254.	5523.	67382.

0FUEL END-USES IN MBTU

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 SPACE HEAT	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	6.0
MAX MBTU	0.029	0.033	0.006	0.003	0.002	0.000	0.000	0.000	0.000	0.002	0.015	0.028	0.033
DAY/HR	7/ 9	19/ 8	5/ 8	18/23	23/ 1	0/ 0	0/ 0	0/ 0	0/ 0	23/ 1	24/ 8	26/ 9	
0DOMHOT WATER	3.3	3.0	3.3	3.2	3.3	3.2	3.3	3.3	3.2	3.3	3.2	3.3	39.1
MAX MBTU	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
DAY/HR	2/ 8	3/ 8	3/ 8	1/ 8	1/ 8	2/ 8	1/ 8	1/ 8	2/ 8	1/ 8	3/ 8	1/ 8	
0 TOTAL MBTU	6.0	4.4	3.3	3.3	3.3	3.2	3.3	3.3	3.2	3.3	3.4	4.9	45.1

REPORT- PS-F ENERGY-RESOURCE PEAK BREAKDOWN BY END-USE WEATHER FILE- SEATTLE SEATTLE-T WA

0ENERGY-RESOURCE: ELECTRICITY
UNITS: KWH

0	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 PEAK DEMAND:	10.8	11.5	11.6	14.7	15.1	15.6	16.5	16.7	15.9	12.3	13.2	10.8
DAY/HR:	2/11	27/15	18/16	1/16	15/17	28/18	24/16	29/17	23/15	4/18	4/14	1/11
0BREAKDOWN												
0 AREA LIGHTS:	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53
(%):	32.78	30.78	30.30	24.03	23.35	22.62	21.35	21.16	22.16	28.73	26.79	32.78
0MISC EQUIPMT:	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
(%):	37.19	34.92	34.38	27.27	26.49	25.66	24.22	24.01	25.14	32.59	30.39	37.19
0 SPACE HEAT:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 SPACE COOL:	0.00	0.70	0.88	3.92	4.35	4.83	5.76	5.91	5.16	1.52	2.41	0.00
(%):	0.00	6.11	7.56	26.68	28.77	31.00	34.87	35.44	32.41	12.37	18.28	0.00
0 VENT FANS:	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
(%):	30.03	28.19	27.76	22.02	21.39	20.72	19.56	19.39	20.30	26.31	24.54	30.03
0DOMHOT WATER:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

REPORT- PS-F ENERGY-RESOURCE PEAK BREAKDOWN BY END-USE WEATHER FILE- SEATTLE SEATTLE-T WA

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

0ENERGY-RESOURCE: NATURAL-GAS
UNITS: THERM

0	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 PEAK DEMAND:	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
DAY/HR:	7/ 9	19/ 8	5/ 8	18/23	1/ 8	2/ 8	1/ 8	1/ 8	2/ 8	1/ 8	24/ 8	26/ 9
0BREAKDOWN												
0 AREA LIGHTS:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0MISC EQUIPMT:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 SPACE HEAT:	0.29	0.33	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.28
(%):	79.71	80.72	43.23	30.35	0.00	0.00	0.00	0.00	0.00	0.00	64.65	79.42
0 SPACE COOL:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 VENT FANS:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0DOMHOT WATER:	0.07	0.08	0.08	0.06	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07
(%):	20.29	19.28	56.77	69.65	100.00	100.00	100.00	100.00	100.00	100.00	35.35	20.58

TOTAL HOURS AT HOURLY DEMAND AND TIME OF DAY

	HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
	16	0	0	0	0	0	0	0	0	0	0	1	0	0	4	9	12	14	14	7	1	0	0	0	0	62
	15	0	0	0	0	0	0	0	0	0	0	5	12	19	23	31	35	30	31	24	18	8	4	0	0	240
	14	0	0	0	0	0	0	0	0	0	0	7	12	19	30	25	22	24	20	19	12	9	9	0	0	208
	12	0	0	0	0	0	0	0	0	0	1	11	12	23	17	28	21	20	20	23	19	9	8	0	0	212
D	11	0	0	0	0	0	0	0	0	1	3	234	228	209	201	182	186	188	230	239	261	280	285	4	0	2731
E	10	0	0	0	0	0	0	0	0	1	5	107	101	95	90	90	89	39	0	3	2	2	0	2	0	626
M K	8	0	0	0	0	0	0	0	0	250	295	0	0	0	0	0	0	50	50	50	52	57	59	5	1	869
A W	7	0	0	0	0	0	0	0	252	0	0	0	0	0	0	0	0	0	0	0	0	0	0	354	2	608
N	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	362	363
D	5	364	365	365	0	0	0	0	0	113	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1268
	3	0	0	0	0	0	0	365	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	478
	2	0	0	0	365	365	365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1095
	1	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
	PERCENT TOTAL DEMAND	2.5	2.4	2.4	0.7	0.7	0.9	1.6	2.8	3.8	4.1	5.7	5.8	5.9	6.0	6.1	6.1	6.0	6.1	6.0	5.8	5.7	5.7	4.0	3.2	

PEAK ELECTRICAL LOAD BREAKDOWN

SOURCE	KW	PCT
SYSTEMS LOAD	16.666	100.0
TOTAL	16.666	

REPORT- PS-H EQUIPMENT USE STATISTICS WEATHER FILE- SEATTLE SEATTLE-T WA

E Q U I P M E N T	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS
			-- -- --										

REPORT- PS-I EQUIPMENT LIFE CYCLE COSTS WEATHER FILE- SEATTLE SEATTLE-T WA

E Q U I P M E N T T O T A L S

EQUIPMENT TOTAL	0.0

ENERGY TYPE: UNITS: MBTU	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
AREA LIGHTS	67.4	0.0
MISC EQUIPMT	76.7	0.0
SPACE HEAT	0.0	6.0
SPACE COOL	8.5	0.0
VENT FANS	77.3	0.0
DOMHOT WATER	0.0	39.1
TOTAL	230.0	45.1

TOTAL SITE ENERGY	275.03 MBTU	92.8 KBTU/SQFT-YR GROSS-AREA	92.8 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	735.05 MBTU	248.0 KBTU/SQFT-YR GROSS-AREA	248.0 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.

REPORT- BEPU BUILDING ENERGY PERFORMANCE SUMMARY (UTILITY UNITS) WEATHER FILE- SEATTLE SEATTLE-T WA

ENERGY TYPE: / SITE UNITS: / CATEGORY OF USE	ELECTRICITY KWH	NATURAL-GAS THERM
AREA LIGHTS	19743.	0.
MISC EQUIPMT	22481.	0.
SPACE HEAT	0.	60.
SPACE COOL	2501.	0.
VENT FANS	22656.	0.
DOMHOT WATER	0.	391.
TOTAL	67382.	451.

TOTAL ELECTRICITY	67382. KWH	22.733 KWH	/SQFT-YR GROSS-AREA	22.733 KWH	/SQFT-YR NET-AREA
TOTAL NATURAL-GAS	451. THERM	0.152 THERM	/SQFT-YR GROSS-AREA	0.152 THERM	/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.

MMDDHH	END-USE AREA LITE KW	END-USE TASK LITE KW	END-USE EQUIP ELEC KW	END-USE SOURCE ELEC KW	END-USE HEATING ELEC KW	END-USE SUPPLEMT ELEC KW	END-USE COOLING ELEC KW	END-USE HEAT REJ ELEC KW
	----(1)	----(2)	----(3)	----(4)	----(5)	----(11)	----(6)	----(7)
0 MONTHLY SUMMARY (JAN)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	0.000	0.000
SM	1680.588	0.000	1913.781	0.000	0.000	0.000	0.000	0.000
AV	2.259	0.000	2.572	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (FEB)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	0.700	0.000
SM	1510.040	0.000	1719.713	0.000	0.000	0.000	1.063	0.000
AV	2.247	0.000	2.559	0.000	0.000	0.000	0.002	0.000
0 MONTHLY SUMMARY (MAR)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	0.880	0.000
SM	1677.268	0.000	1909.780	0.000	0.000	0.000	1.833	0.000
AV	2.254	0.000	2.567	0.000	0.000	0.000	0.002	0.000
0 MONTHLY SUMMARY (APR)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	4.366	0.000
SM	1637.432	0.000	1864.208	0.000	0.000	0.000	95.763	0.000
AV	2.274	0.000	2.589	0.000	0.000	0.000	0.133	0.000
0 MONTHLY SUMMARY (MAY)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	4.346	0.000
SM	1677.268	0.000	1909.780	0.000	0.000	0.000	188.333	0.000
AV	2.254	0.000	2.567	0.000	0.000	0.000	0.253	0.000
0 MONTHLY SUMMARY (JUN)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	4.833	0.000
SM	1623.739	0.000	1849.092	0.000	0.000	0.000	323.945	0.000
AV	2.255	0.000	2.568	0.000	0.000	0.000	0.450	0.000
0 MONTHLY SUMMARY (JUL)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	5.761	0.000
SM	1680.588	0.000	1913.781	0.000	0.000	0.000	720.324	0.000
AV	2.259	0.000	2.572	0.000	0.000	0.000	0.968	0.000
0 MONTHLY SUMMARY (AUG)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	5.920	0.000
SM	1677.268	0.000	1909.780	0.000	0.000	0.000	895.772	0.000
AV	2.254	0.000	2.567	0.000	0.000	0.000	1.204	0.000
0 MONTHLY SUMMARY (SEP)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	5.159	0.000
SM	1623.738	0.000	1849.092	0.000	0.000	0.000	255.146	0.000
AV	2.255	0.000	2.568	0.000	0.000	0.000	0.354	0.000
0 MONTHLY SUMMARY (OCT)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	2.317	0.000
SM	1680.588	0.000	1913.781	0.000	0.000	0.000	11.631	0.000
AV	2.259	0.000	2.572	0.000	0.000	0.000	0.016	0.000
0 MONTHLY SUMMARY (NOV)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	2.407	0.000
SM	1593.032	0.000	1814.857	0.000	0.000	0.000	7.362	0.000
AV	2.213	0.000	2.521	0.000	0.000	0.000	0.010	0.000
0 MONTHLY SUMMARY (DEC)								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	0.000	0.000
SM	1680.588	0.000	1913.781	0.000	0.000	0.000	0.000	0.000
AV	2.259	0.000	2.572	0.000	0.000	0.000	0.000	0.000
0 YEARLY SUMMARY								
MN	0.622	0.000	0.667	0.000	0.000	0.000	0.000	0.000
MX	3.527	0.000	4.001	0.000	0.000	0.000	5.920	0.000
SM	19742.135	0.000	22481.424	0.000	0.000	0.000	2501.172	0.000
AV	2.254	0.000	2.566	0.000	0.000	0.000	0.286	0.000

MMDDHH	END-USE AUXIL ELEC KW ----(8)	END-USE VENTILAT ELEC KW ----(9)	END-USE DHW HEAT ELEC KW ----(12)	END-USE SOURCE FUEL BTU/HR ----(14)	END-USE HEATING FUEL BTU/HR ----(15)	END-USE COOLING FUEL BTU/HR ----(16)	END-USE DHW HEAT FUEL BTU/HR ----(18)	END-USE EXTERIOR LITE KW ----(20)
0 MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	28784.275	0.000	7935.725	0.000
SM	0.000	1928.826	0.000	0.000	2673276.500	0.000	3328475.500	0.000
AV	0.000	2.593	0.000	0.000	3593.114	0.000	4473.757	0.000
0 MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	33234.539	0.000	7935.725	0.000
SM	0.000	1734.974	0.000	0.000	1407729.000	0.000	2993852.500	0.000
AV	0.000	2.582	0.000	0.000	2094.835	0.000	4455.138	0.000
0 MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	6043.880	0.000	7935.725	0.000
SM	0.000	1922.365	0.000	0.000	28081.350	0.000	3321191.500	0.000
AV	0.000	2.584	0.000	0.000	37.744	0.000	4463.967	0.000
0 MONTHLY SUMMARY (APR)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	2664.769	0.000	7935.725	0.000
SM	0.000	1873.902	0.000	0.000	13744.650	0.000	3236966.250	0.000
AV	0.000	2.603	0.000	0.000	19.090	0.000	4495.787	0.000
0 MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	2247.889	0.000	7935.725	0.000
SM	0.000	1922.365	0.000	0.000	2247.889	0.000	3321191.500	0.000
AV	0.000	2.584	0.000	0.000	3.021	0.000	4463.967	0.000
0 MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	0.000	0.000	7935.725	0.000
SM	0.000	1864.209	0.000	0.000	0.000	0.000	3216934.500	0.000
AV	0.000	2.589	0.000	0.000	0.000	0.000	4467.964	0.000
0 MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	0.000	0.000	7935.725	0.000
SM	0.000	1928.826	0.000	0.000	0.000	0.000	3328475.500	0.000
AV	0.000	2.593	0.000	0.000	0.000	0.000	4473.757	0.000
0 MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	0.000	0.000	7935.725	0.000
SM	0.000	1922.365	0.000	0.000	0.000	0.000	3321191.500	0.000
AV	0.000	2.584	0.000	0.000	0.000	0.000	4463.967	0.000
0 MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	0.000	0.000	7935.725	0.000
SM	0.000	1864.209	0.000	0.000	0.000	0.000	3216934.500	0.000
AV	0.000	2.589	0.000	0.000	0.000	0.000	4467.964	0.000
0 MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	2410.865	0.000	7935.725	0.000
SM	0.000	1928.826	0.000	0.000	2410.865	0.000	3328475.250	0.000
AV	0.000	2.593	0.000	0.000	3.240	0.000	4473.757	0.000
0 MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	14515.254	0.000	7935.725	0.000
SM	0.000	1838.362	0.000	0.000	243033.094	0.000	3169587.000	0.000
AV	0.000	2.553	0.000	0.000	337.546	0.000	4402.204	0.000
0 MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	28282.232	0.000	7935.725	0.000
SM	0.000	1928.826	0.000	0.000	1580433.000	0.000	3328475.500	0.000
AV	0.000	2.593	0.000	0.000	2124.238	0.000	4473.757	0.000
0 YEARLY SUMMARY								
MN	0.000	0.000	0.000	0.000	0.000	0.000	651.450	0.000
MX	0.000	3.231	0.000	0.000	33234.539	0.000	7935.725	0.000
SM	0.000	22658.053	0.000	0.000	5950956.500	0.000	39111752.000	0.000
AV	0.000	2.587	0.000	0.000	679.333	0.000	4464.812	0.000

MMDDHH	END-USE EXT MISC ELEC KW	END-USE EXT MISC FUEL BTU/HR	END-USE METER STEAM UNITS	END-USE METER CHIL WTR UNITS	PLANT SYS HEAT LOAD BTU/HR	PLANT SYS COOL LOAD BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE TOTAL IN STORAGE BTU/HR
	----(21)	----(22)	----(33)	----(34)	----(1)	----(2)	----(1)	----(14)
0 MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (APR)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 YEARLY SUMMARY								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.

MESSAGE LIST FROM ECONOMICS PROGRAM

0 **CAUTION**********
BLOCK-CHARGE RATE-01-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-11-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-21-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-31-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-41-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-51-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-01-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-11-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-21-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-31-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-41-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-51-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

REPORT- ES-D ENERGY COST SUMMARY

UTILITY-RATE	RESOURCE	METERS	METERED ENERGY UNITS/YR	TOTAL CHARGE ($)	VIRTUAL RATE ($/UNIT)	RATE USED ALL YEAR?
0ELEC-CO Electric	ELECTRICITY	1 2 3 4 5	67383. KWH	47493.	0.7048	YES
0GAS-CO GAS	NATURAL-GAS	1 2 3 4 5	451. THERM	5332.	11.8321	YES
0				==========		
0				52825.		

ENERGY COST/GROSS BLDG AREA: 17.82
ENERGY COST/NET BLDG AREA: 17.82

REPORT- ES-E SUMMARY OF UTILITY-RATE: ELEC-CO Electric

UTILITY-RATE: ELEC-CO Electric RESOURCE: ELECTRICITY DEMAND-WINDOW: HOUR 3413. BTU/KWH
METERS: 1 2 3 4 5 BILLING-DAY: 31 RATE-LIMITATION: 0.0000
POWER-FACTOR: 0.80 EXCESS-KVAR-FRAC: 0.30 EXCESS-KVAR-CHG: 0.0000

RATE-QUALIFICATIONS		BLOCK-CHARGES	DEMAND-RATCHETS	MIN-MON-RATCHETS
MIN-ENERGY:	0.0	RATE-01-ELECTRIC		
MAX-ENERGY:	0.0	RATE-11-ELECTRIC		
MIN-DEMAND:	0.0	RATE-21-ELECTRIC		
MAX-DEMAND:	0.0	RATE-31-ELECTRIC		
QUALIFY-RATE:	ALL-MONTHS	RATE-41-ELECTRIC		
USE-MIN-QUAL:	NO	RATE-51-ELECTRIC		

0

MONTH	METERED ENERGY KWH	BILLING ENERGY KWH	METERED DEMAND KW	BILLING DEMAND KW	ENERGY CHARGE ($)	DEMAND CHARGE ($)	ENERGY CST ADJ ($)	TAXES ($)	SURCHRG ($)	FIXED CHARGE ($)	MINIMUM CHARGE ($)	VIRTUAL RATE ($/UNIT)	TOTAL CHARGE ($)
0 JAN	5523	5523	10.8	10.8	3866	22	0	0	0	0	0	0.7040	3888
0 FEB	4966	4966	11.5	11.5	3476	22	0	0	0	0	0	0.7045	3499
0 MAR	5511	5511	11.6	11.6	3858	23	0	0	0	0	0	0.7041	3881
0 APR	5471	5471	14.7	14.7	3830	30	0	0	0	0	0	0.7054	3859
0 MAY	5698	5698	15.1	15.1	3988	29	0	0	0	0	0	0.7052	4018
0 JUN	5661	5661	15.6	15.6	3963	31	0	0	0	0	0	0.7055	3994
0 JUL	6244	6244	16.5	16.5	4370	32	0	0	0	0	0	0.7052	4403
0 AUG	6405	6405	16.7	16.7	4484	34	0	0	0	0	0	0.7052	4517
0 SEP	5592	5592	15.9	15.9	3915	31	0	0	0	0	0	0.7056	3946
0 OCT	5535	5535	12.3	12.3	3874	25	0	0	0	0	0	0.7045	3899
0 NOV	5254	5254	13.2	13.2	3678	24	0	0	0	0	0	0.7045	3701
0 DEC	5523	5523	10.8	10.8	3866	22	0	0	0	0	0	0.7040	3888
TOTAL	67383	67383	16.7		47168	325	0	0	0	0		0.7048	47493

REPORT- ES-F BLOCK-CHARGE AND RATCHET SUMMARY FOR: ELEC-CO Electric

UTILITY-RATE: ELEC-CO Electric
RESOURCE: ELECTRICITY
ENERGY-UNITS: KWH
DEMAND-UNITS: KW
DEMAND-WINDOW: HOUR

0

BLOCK-CHARGES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
0RATE-01-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	1033	979	1091	977	0	0	0	0	0	0	1172	1033	
BILLING ENERGY:	1033	979	1091	977	0	0	0	0	0	0	1172	1033	6284
METERED DEMAND:	9.9	9.9	9.9	13.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.9	
BILLING DEMAND:	9.9	9.9	9.9	13.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.9	
ENERGY CHGS($):	723	685	763	684	0	0	0	0	0	0	820	723	4399
DEMAND CHGS($):	7	7	7	9	0	0	0	0	0	0	7	7	44
TOTAL CHGS($):	730	692	770	693	0	0	0	0	0	0	827	730	4442
0RATE-11-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	2945	2591	2865	2935	0	0	0	0	0	0	2563	2891	
BILLING ENERGY:	2945	2591	2865	2935	0	0	0	0	0	0	2563	2891	16789
METERED DEMAND:	10.8	11.5	11.6	14.7	0.0	0.0	0.0	0.0	0.0	0.0	13.2	10.8	
BILLING DEMAND:	10.8	11.5	11.6	14.7	0.0	0.0	0.0	0.0	0.0	0.0	13.2	10.8	
ENERGY CHGS($):	2061	1814	2005	2054	0	0	0	0	0	0	1794	2024	11752
DEMAND CHGS($):	8	8	8	10	0	0	0	0	0	0	9	8	51
TOTAL CHGS($):	2069	1822	2013	2065	0	0	0	0	0	0	1803	2031	11803
0RATE-21-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	1101	1036	1068	1172	1029	1035	0	0	
BILLING ENERGY:	0	0	0	0	1101	1036	1068	1172	1029	1035	0	0	6441
METERED DEMAND:	0.0	0.0	0.0	0.0	12.1	13.9	13.6	14.7	13.4	11.1	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	12.1	13.9	13.6	14.7	13.4	11.1	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	771	725	748	820	720	724	0	0	4509
DEMAND CHGS($):	0	0	0	0	8	10	10	10	9	8	0	0	55
TOTAL CHGS($):	0	0	0	0	779	735	757	830	730	732	0	0	4564
0RATE-31-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	2912	2917	3239	3255	2902	2896	0	0	
BILLING ENERGY:	0	0	0	0	2912	2917	3239	3255	2902	2896	0	0	18121
METERED DEMAND:	0.0	0.0	0.0	0.0	14.9	14.9	16.5	16.5	15.9	12.2	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	14.9	14.9	16.5	16.5	15.9	12.2	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	2038	2042	2267	2278	2031	2027	0	0	12685
DEMAND CHGS($):	0	0	0	0	10	10	12	12	11	9	0	0	64
TOTAL CHGS($):	0	0	0	0	2049	2053	2279	2290	2043	2036	0	0	12749
0RATE-41-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	1685	1708	1937	1979	1661	1604	0	0	
BILLING ENERGY:	0	0	0	0	1685	1708	1937	1979	1661	1604	0	0	10573
METERED DEMAND:	0.0	0.0	0.0	0.0	15.1	15.6	16.2	16.7	15.6	12.3	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	15.1	15.6	16.2	16.7	15.6	12.3	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	1179	1195	1356	1385	1163	1123	0	0	7401
DEMAND CHGS($):	0	0	0	0	11	11	11	12	11	9	0	0	64
TOTAL CHGS($):	0	0	0	0	1190	1206	1367	1397	1174	1131	0	0	7465
0RATE-51-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	1546	1395	1556	1559	0	0	0	0	0	0	1519	1600	
BILLING ENERGY:	1546	1395	1556	1559	0	0	0	0	0	0	1519	1600	9176
METERED DEMAND:	10.8	10.8	10.9	14.6	0.0	0.0	0.0	0.0	0.0	0.0	10.8	10.8	
BILLING DEMAND:	10.8	10.8	10.9	14.6	0.0	0.0	0.0	0.0	0.0	0.0	10.8	10.8	
ENERGY CHGS($):	1082	977	1089	1091	0	0	0	0	0	0	1064	1120	6423
DEMAND CHGS($):	8	8	8	10	0	0	0	0	0	0	8	8	48
TOTAL CHGS($):	1090	984	1097	1102	0	0	0	0	0	0	1071	1127	6471
TOTAL ENERGY:	5523	4966	5511	5471	5698	5661	6244	6405	5592	5535	5254	5523	67383
TOTAL CHARGES ($):	3888	3499	3881	3859	4018	3994	4403	4517	3946	3899	3701	3888	47493

Baseline Building (90.1 Appendix G) East Town Crossing Lot 1 Tenant-1 DOE-2.1E-124 Tue Jun 3 14:29:03 2025EDL RUN 1

REPORT- ES-E SUMMARY OF UTILITY-RATE: GAS-CO GAS

UTILITY-RATE: GAS-CO GAS RESOURCE: NATURAL-GAS DEMAND-WINDOW: HOUR 100000. BTU/THERM
METERS: 1 2 3 4 5 BILLING-DAY: 31 RATE-LIMITATION: 0.0000

RATE-QUALIFICATIONS
MIN-ENERGY: 0.0
MAX-ENERGY: 0.0
MIN-DEMAND: 0.0
MAX-DEMAND: 0.0
QUALIFY-RATE: ALL-MONTHS
USE-MIN-QUAL: NO

BLOCK-CHARGES
RATE-01-NATURAL-
RATE-11-NATURAL-
RATE-21-NATURAL-
RATE-31-NATURAL-
RATE-41-NATURAL-
RATE-51-NATURAL-

DEMAND-RATCHETS

MIN-MON-RATCHETS

0

MONTH	METERED ENERGY THERM	BILLING ENERGY THERM	METERED DEMAND THERMS	BILLING DEMAND THERMS	ENERGY CHARGE ($)	DEMAND CHARGE ($)	ENERGY CST ADJ ($)	TAXES ($)	SURCHRG ($)	FIXED CHARGE ($)	MINIMUM CHARGE ($)	VIRTUAL RATE ($/UNIT)	TOTAL CHARGE ($)
0 JAN	60	60	0.4	0.4	702	10	0	0	0	0	0	11.8647	712
0 FEB	44	44	0.4	0.4	515	11	0	0	0	0	0	11.9527	526
0 MAR	33	33	0.1	0.1	392	3	0	0	0	0	0	11.8001	395
0 APR	33	33	0.1	0.1	380	3	0	0	0	0	0	11.7844	383
0 MAY	33	33	0.1	0.1	389	3	0	0	0	0	0	11.7796	391
0 JUN	32	32	0.1	0.1	376	3	0	0	0	0	0	11.7822	379
0 JUL	33	33	0.1	0.1	389	3	0	0	0	0	0	11.7795	392
0 AUG	33	33	0.1	0.1	389	3	0	0	0	0	0	11.7796	391
0 SEP	32	32	0.1	0.1	376	3	0	0	0	0	0	11.7822	379
0 OCT	33	33	0.1	0.1	390	3	0	0	0	0	0	11.7794	392
0 NOV	34	34	0.2	0.2	399	6	0	0	0	0	0	11.8764	405
0 DEC	49	49	0.4	0.4	574	11	0	0	0	0	0	11.9143	585
TOTAL	451	451	0.4		5272	60	0	0	0	0		11.8321	5332

REPORT- ES-F BLOCK-CHARGE AND RATCHET SUMMARY FOR: GAS-CO GAS

UTILITY-RATE: GAS-CO GAS
RESOURCE: NATURAL-GAS
ENERGY-UNITS: THERM
DEMAND-UNITS: THERMS
DEMAND-WINDOW: HOUR

0

BLOCK-CHARGES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
0RATE-01-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	18	12	6	6	0	0	0	0	0	0	8	14	
BILLING ENERGY:	18	12	6	6	0	0	0	0	0	0	8	14	63
METERED DEMAND:	0.3	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	
BILLING DEMAND:	0.3	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	
ENERGY CHGS($):	209	138	73	65	0	0	0	0	0	0	89	159	734
DEMAND CHGS($):	4	4	1	1	0	0	0	0	0	0	2	3	14
TOTAL CHGS($):	212	142	74	66	0	0	0	0	0	0	91	163	749
0RATE-11-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	31	22	18	18	0	0	0	0	0	0	17	25	
BILLING ENERGY:	31	22	18	18	0	0	0	0	0	0	17	25	130
METERED DEMAND:	0.4	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	
BILLING DEMAND:	0.4	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	
ENERGY CHGS($):	362	260	207	207	0	0	0	0	0	0	197	287	1521
DEMAND CHGS($):	4	5	2	1	0	0	0	0	0	0	3	4	18
TOTAL CHGS($):	366	265	209	208	0	0	0	0	0	0	200	292	1540
0RATE-21-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	6	6	6	6	6	6	0	0	
BILLING ENERGY:	0	0	0	0	6	6	6	6	6	6	0	0	36
METERED DEMAND:	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	73	68	69	73	68	69	0	0	421
DEMAND CHGS($):	0	0	0	0	1	1	1	1	1	1	0	0	5
TOTAL CHGS($):	0	0	0	0	74	69	70	74	69	70	0	0	426
0RATE-31-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	17	17	18	17	17	18	0	0	
BILLING ENERGY:	0	0	0	0	17	17	18	17	17	18	0	0	104
METERED DEMAND:	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	202	199	207	202	199	207	0	0	1214
DEMAND CHGS($):	0	0	0	0	1	1	1	1	1	1	0	0	6
TOTAL CHGS($):	0	0	0	0	203	200	208	203	200	208	0	0	1220
0RATE-41-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	10	9	10	10	9	10	0	0	
BILLING ENERGY:	0	0	0	0	10	9	10	10	9	10	0	0	58
METERED DEMAND:	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	114	110	114	114	110	114	0	0	674
DEMAND CHGS($):	0	0	0	0	1	1	1	1	1	1	0	0	6
TOTAL CHGS($):	0	0	0	0	114	111	114	114	111	114	0	0	679
0RATE-51-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	11	10	10	9	0	0	0	0	0	0	10	11	
BILLING ENERGY:	11	10	10	9	0	0	0	0	0	0	10	11	60
METERED DEMAND:	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	
BILLING DEMAND:	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	
ENERGY CHGS($):	131	116	112	108	0	0	0	0	0	0	113	127	707
DEMAND CHGS($):	2	2	1	1	0	0	0	0	0	0	2	3	11
TOTAL CHGS($):	134	119	112	109	0	0	0	0	0	0	114	130	718
TOTAL ENERGY:	60	44	33	33	33	32	33	33	32	33	34	49	451
TOTAL CHARGES ($):	712	526	395	383	391	379	392	391	379	392	405	585	5332

DOE-2 UNITS TABLE

	ENGLISH	MULTIPLIED BY	GIVES	METRIC	MULTIPLIED BY	GIVES	ENGLISH
1			1.000000			1.000000	
2			1.000000			1.000000	
3	BTU		0.293000	WH		3.412969	BTU
4	BTU/HR		0.293000	WATT		3.412969	BTU/HR
5	BTU/LB-F		4183.830078	J/KG-K		0.000239	BTU/LB-F
6	BTU/HR-SQFT-F		5.674460	W/M2-K		0.176228	BTU/HR-SQFT-F
7	DEGREES		1.000000	DEGREES		1.000000	DEGREES
9	SQFT		0.092903	M2		10.763915	SQFT
10	CUFT		0.028317	M3		35.314724	CUFT
11	LB/HR		0.453592	KG/HR		2.204624	LB/HR
12	LB/CUFT		16.018459	KG/M3		0.062428	LB/CUFT
13	MPH		0.447040	M/S		2.236936	MPH
14	BTU/HR-F		0.527178	W/K		1.896893	BTU/HR-F
15	FT		0.304800	M		3.280840	FT
16	BTU/HR-FT-F		1.729600	W/M-K		0.578168	BTU/HR-FT-F
17	BTU/HR- SQFT		3.152480	WATT /M2		0.317211	BTU/HR- SQFT
18	IN		2.540000	CM		0.393701	IN
19	UNITS/IN		0.393700	UNITS/CM		2.540005	UNITS/IN
20	UNITS		1.000000	UNITS		1.000000	UNITS
21	LB		0.453592	KG		2.204624	LB
22	FRAC.OR MULT.		1.000000	FRAC.OR MULT.		1.000000	FRAC.OR MULT.
23	HOURS		1.000000	HRS		1.000000	HOURS
24	PERCENT-RH		1.000000	PERCENT-RH		1.000000	PERCENT-RH
25	CFM		1.699010	M3/H		0.588578	CFM
26	IN-WATER		25.400000	MM-WATER		0.039370	IN-WATER
27	LB/SQFT		4.882400	KG/M2		0.204817	LB/SQFT
28	KW		1.000000	KW		1.000000	KW
29	W/SQFT		10.763920	W/M2		0.092903	W/SQFT
30	THERMS		25.000000	THERMIES		0.040000	THERMS
31	KNOTS		0.514440	M/SEC		1.943861	KNOTS
32	HR-SQFT-F /BTU		0.176228	M2-K /W		5.674467	HR-SQFT-F /BTU
33	$DOLLARS		1.000000	$DOLLARS		1.000000	$DOLLARS
34	MBTU/HR		0.293000	MWATT		3.412969	MBTU/HR
35	YEARS		1.000000	YEARS		1.000000	YEARS
36	$/HR		1.000000	$/HR		1.000000	$/HR
37	HRS/YEARS		1.000000	HRS/YEARS		1.000000	HRS/YEARS
38	PERCENT		1.000000	PERCENT		1.000000	PERCENT
39	$/MONTH		1.000000	$/MONTH		1.000000	$/MONTH
40	GALLONS/MIN/TON		1.078000	LITERS/MIN/KW		0.927644	GALLONS/MIN/TON
41	BTU/LB		0.645683	WH/KG		1.548748	BTU/LB
42	LBS/SQIN-GAGE		68.947571	MBAR-GAGE		0.014504	LBS/SQIN-GAGE
43	$/UNIT		1.000000	$/UNIT		1.000000	$/UNIT
44	BTU/HR/PERSON		0.293000	W/PERSON		3.412969	BTU/HR/PERSON
45	LBS/LB		1.000000	KGS/KG		1.000000	LBS/LB
46	BTU/BTU		1.000000	KWH/KWH		1.000000	BTU/BTU
47	LBS/KW		0.453590	KG/KW		2.204634	LBS/KW
48	REV/MIN		1.000000	REV/MIN		1.000000	REV/MIN
49	KW/TON		1.000000	KW/TON		1.000000	KW/TON
50	MBTU		0.293000	MWH		3.412969	MBTU
51	GAL		3.785410	LITER		0.264172	GAL
52	GAL/MIN		3.785410	LITERS/MIN		0.264172	GAL/MIN
53	BTU/F		1897.800049	J/K		0.000527	BTU/F
54	UNITS/HR		1.000000	UNITS/HR		1.000000	UNITS/HR
55	$/UNIT-HR		1.000000	$/UNIT-HR		1.000000	$/UNIT-HR
56	KW/CFM		0.588500	KW/M3/HR		1.699235	KW/CFM
57	BTU/SQFT-F		20428.400391	J/M2-K		0.000049	BTU/SQFT-F
58	HR/HR		1.000000	HR/HR		1.000000	HR/HR
59	BTU/FT-F		6226.479980	J/M-K		0.000161	BTU/FT-F
60	R		0.555556	K		1.799999	R
61	INCH MER		33.863800	MBAR		0.029530	INCH MER
62	UNITS/GAL/MIN		0.264170	UNITS/LITER/MIN		3.785441	UNITS/GAL/MIN
63	(HR-SQFT-F/BTU)2		0.031056	(M2-K /W)2		32.199585	(HR-SQFT-F/BTU)2
64	KBTU/HR		0.293000	KW		3.412969	KBTU/HR
65	KBTU		0.293000	KWH		3.412969	KBTU
66	CFM		0.471900	L/S		2.119093	CFM
67	CFM/SQFT		18.288000	M3/H-M2		0.054681	CFM/SQFT
68	1/R		1.799900	1/K		0.555586	1/R
69	1/KNOT		1.943860	SEC/M		0.514440	1/KNOT
70	FOOTCANDLES		10.763910	LUX		0.092903	FOOTCANDLES
71	FOOTLAMBERT		3.426259	CANDELA/M2		0.291864	FOOTLAMBERT
72	LUMEN / WATT		1.000000	LUMEN / WATT		1.000000	LUMEN / WATT
73	KBTU/SQFT-YR		3.152480	KWH/M2-YR		0.317211	KBTU/SQFT-YR

DATA FOR SPACE 1-Tenant 2 Train

LOCATION OF ORIGIN IN BUILDING COORDINATES

XB (FT)	YB (FT)	ZB (FT)	SPACE AZIMUTH (DEG)	SPACE*FLOOR MULTIPLIER	HEIGHT (FT)	AREA (SQFT)	VOLUME (CUFT)
0.00	0.00	0.00	0.00	1.0	8.00	2027.00	16216.00

TOTAL NUMBER OF SURFACES	NUMBER OF EXTERIOR SURFACES	NUMBER OF INTERIOR SURFACES	NUMBER OF UNDERGROUND SURFACES	DAYLIGHTING	SUNSPACE
6	5	0	1	NO	NO

NUMBER OF SUBSURFACES

TOTAL	EXTERIOR WINDOWS	DOORS	INTERIOR WINDOWS
4	4	0	0

FLOOR WEIGHT (LB/SQFT)	CALCULATION TEMPERATURE (F)
91.3	72.0

INFILTRATION

SCHEDULE	INFILTRATION CALCULATION METHOD	FLOW RATE (CFM/SQFT)	AIR CHANGES PER HOUR	HEIGHT TO NEUTRAL ZONE (FT)
	AIR-CHANGE	0.00	0.00	0.0

PEOPLE

SCHEDULE	NUMBER	AREA PER PERSON (SQFT)	PEOPLE ACTIVITY (BTU/HR)	PEOPLE SENSIBLE (BTU/HR)	PEOPLE LATENT (BTU/HR)
SCHED-185	10.0	202.7	0.0	255.0	875.0

LIGHTING

SCHEDULE	LIGHTING TYPE	LOAD (WATTS/ SQFT)	LOAD (KW)	FRACTION OF LOAD TO SPACE
SCHED-186	REC-FLUOR-NV	0.70	0.00	1.00

TASK LIGHTING

SCHEDULE	LOAD (WATTS/ SQFT)	LOAD (KW)
SCHED-186	0.00	0.

ELECTRICAL EQUIPMENT

SCHEDULE	ELEC LOAD (WATTS/ SQFT)	ELEC LOAD (KW)	FRACTION OF LOAD TO SPACE SENSIBLE	LATENT
SCHED-187	1.00	0.00	1.00	0.00

EXTERIOR SURFACES (U-VALUE EXCLUDES OUTSIDE AIR FILM)

SURFACE	MULTIPLIER	AREA (SQFT)	WIDTH (FT)	HEIGHT (FT)	CONSTRUCTION	U-VALUE (BTU/HR-SQFT-F)	SURFACE TYPE
	1.0	580.00	72.50	8.00	Wall-3	0.127	QUICK
	1.0	568.00	71.00	8.00	Wall-3	0.127	QUICK
	1.0	602.00	75.25	8.00	Wall-3	0.127	QUICK
	1.0	76.00	9.50	8.00	Wall-3	0.127	QUICK
	1.0	2026.80	45.02	45.02	Roof-5	0.064	QUICK

SURFACE	AZIMUTH (DEG)	TILT (DEG)	LOCATION OF ORIGIN IN BUILDING COORDINATES XB (FT)	YB (FT)	ZB (FT)	LOCATION OF ORIGIN IN SPACE COORDINATES X (FT)	Y (FT)	Z (FT)
	0.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	90.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	180.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	270.0	90.0	0.00	0.00	0.00	0.00	0.00	0.00
	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00

UNDERGROUND SURFACES (U-VALUE INCLUDES INSIDE AIR FILM)

SURFACE	MULTIPLIER	AREA (SQFT)	CONSTRUCTION	U-VALUE (BTU/HR-SQFT-F)
	1.0	2027.00	Slab-4	0.74

EXTERIOR WINDOWS (U-VALUE INCLUDES OUTSIDE AIR FILM)

WINDOW	MULTIPLIER	GLASS AREA (SQFT)	GLASS SHADING COEFF	NUMBER OF PANES	GLASS TYPE CODE	SET-BACK (FT)	GLASS WIDTH (FT)	GLASS HEIGHT (FT)	CENTER-OF-GLASS U-VALUE (BTU/HR-SQFT-F)	GLASS VISIBLE TRANS
	1.0	188.03	0.45	1	1	0.00	28.19	6.67	0.570	0.900
	1.0	110.99	0.45	1	1	0.00	16.64	6.67	0.570	0.900
	1.0	174.02	0.45	1	1	0.00	26.09	6.67	0.570	0.900
	1.0	50.03	0.45	1	1	0.00	7.50	6.67	0.570	0.900

WINDOW	LOCATED IN SURFACE	LOCATION OF ORIGIN IN BUILDING COORDINATES XB (FT)	YB (FT)	ZB (FT)	LOCATION OF ORIGIN IN SURFACE COORDINATES X (FT)	Y (FT)
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00

REPORT- LV-D DETAILS OF EXTERIOR SURFACES IN THE PROJECT WEATHER FILE- SEATTLE SEATTLE-T WA

NUMBER OF EXTERIOR SURFACES 5 RECTANGULAR 5 OTHER 0
(U-VALUE INCLUDES OUTSIDE AIR FILM; WINDOW INCLUDES FRAME, IF DEFINED)

SURFACE	SPACE	- - - W I N D O W S - - - U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	- - - - W A L L - - - - U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	-W A L L + W I N D O W S- U-VALUE (BTU/HR-SQFT-F)	AREA (SQFT)	AZIMUTH
	1-Tenant 2 Train	0.570	188.03	0.121	391.97	0.266	580.00	NORTH
	1-Tenant 2 Train	0.570	110.99	0.121	457.01	0.208	568.00	EAST
	1-Tenant 2 Train	0.570	224.05	0.121	377.95	0.288	602.00	SOUTH
	1-Tenant 2 Train	0.000	0.00	0.121	76.00	0.121	76.00	WEST
	1-Tenant 2 Train	0.000	0.00	0.062	2026.80	0.062	2026.80	ROOF
	1-Tenant 2 Train	0.000	0.00	0.735	2027.00	0.735	2027.00	UNDERGRND

REPORT- LV-D DETAILS OF EXTERIOR SURFACES IN THE PROJECT WEATHER FILE- SEATTLE SEATTLE-T WA

----------(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	0.570	0.121	0.266	188.03	391.97	580.00
EAST	0.570	0.121	0.208	110.99	457.01	568.00
SOUTH	0.570	0.121	0.288	224.05	377.95	602.00
WEST	0.000	0.121	0.121	0.00	76.00	76.00
ROOF	0.000	0.062	0.062	0.00	2026.80	2026.80
ALL WALLS	0.570	0.121	0.249	523.06	1302.94	1826.00
WALLS+ROOFS	0.570	0.085	0.151	523.06	3329.74	3852.80
UNDERGRND	0.000	0.735	0.735	0.00	2027.00	2027.00
BUILDING	0.570	0.331	0.352	523.06	5356.74	5879.80

REPORT- LV-I DETAILS OF CONSTRUCTIONS OCCURRING IN THE PROJECT WEATHER FILE- SEATTLE SEATTLE-T WA

NUMBER OF CONSTRUCTIONS 6 DELAYED 4 QUICK 2

CONSTRUCTION NAME	U-VALUE (BTU/HR-SQFT-F)	SURFACE ABSORPTANCE	SURFACE ROUGHNESS INDEX	SURFACE TYPE	NUMBER OF RESPONSE FACTORS
Wall-0	0.097	0.70	1	DELAYED	9
Slab-1	0.735	0.70	3	DELAYED	5
Roof-2	0.032	0.70	3	DELAYED	11
Wall-3	0.127	0.70	1	QUICK	0
Slab-4	0.735	0.70	3	DELAYED	5
Roof-5	0.064	0.70	3	QUICK	0

Baseline Building (90.1 Appendix G) East Town Crossing Lot 1 Tenant 2 DOE-2.1E-124 Tue Jun 3 14:28:18 2025LDL RUN 1

REPORT- LS-A SPACE PEAK LOADS SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

SPACE NAME	MULTIPLIER SPACE	MULTIPLIER FLOOR	COOLING LOAD (KBTU/HR)	TIME OF PEAK	DRY-BULB	WET-BULB	HEATING LOAD (KBTU/HR)	TIME OF PEAK	DRY-BULB	WET-BULB
1-Tenant 2 Train	1.	1.	32.272	AUG 8 4 PM	87.F	65.F	-26.414	FEB 19 7 AM	23.F	22.F
SUM			32.272				-26.414			
BUILDING PEAK			32.272	AUG 8 4 PM	87.F	65.F	-26.414	FEB 19 7 AM	23.F	22.F

REPORT- LS-B SPACE PEAK LOAD COMPONENTS 1-Tenant 2 Train WEATHER FILE- SEATTLE SEATTLE-T WA

SPACE 1-Tenant 2 Train
SPACE TEMPERATURE USED FOR THE LOADS CALCULATION IS 72 F / 22 C

MULTIPLIER 1.0 FLOOR MULTIPLIER 1.0

FLOOR AREA 2027 SQFT 188 M2
VOLUME 16216 CUFT 459 M3

TIME	COOLING LOAD AUG 8 4PM		HEATING LOAD FEB 19 7AM	
DRY-BULB TEMP	87 F	31 C	23 F	-5 C
WET-BULB TEMP	65 F	18 C	22 F	-6 C
TOT HORIZONTAL SOLAR RAD	235 BTU/H.SQFT	740 W/M2	0 BTU/H.SQFT	0 W/M2
WINDSPEED AT SPACE	4.5 KTS	2.3 M/S	6.4 KTS	3.3 M/S
CLOUD AMOUNT 0(CLEAR)-10	0		3	

	SENSIBLE (KBTU/H)	SENSIBLE (KW)	LATENT (KBTU/H)	LATENT (KW)	SENSIBLE (KBTU/H)	SENSIBLE (KW)
WALL CONDUCTION	4.216	1.235	0.000	0.000	-7.727	-2.264
ROOF CONDUCTION	6.904	2.023	0.000	0.000	-6.610	-1.937
WINDOW GLASS+FRM COND	1.878	0.550	0.000	0.000	-12.760	-3.739
WINDOW GLASS SOLAR	11.498	3.369	0.000	0.000	1.289	0.378
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURF COND	-1.331	-0.390	0.000	0.000	-2.715	-0.796
OCCUPANTS TO SPACE	0.210	0.061	0.000	0.000	0.550	0.161
LIGHT TO SPACE	3.400	0.996	0.000	0.000	0.726	0.213
EQUIPMENT TO SPACE	5.498	1.611	0.000	0.000	0.833	0.244
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	32.272	9.456	0.000	0.000	-26.414	-7.739
TOTAL / AREA	0.016	0.050	0.000	0.000	-0.013	-0.041
TOTAL LOAD	32.272 KBTU/H	9.456 KW			-26.414 KBTU/H	-7.739 KW
TOTAL LOAD / AREA	15.92 BTU/H.SQFT	50.213 W/M2			13.031 BTU/H.SQFT	41.098 W/M2

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*
* NOTE 1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR
* ----   LOADS
*   2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION
*   IN CONSIDERATION
*   3)THE ABOVE LOADS ARE CALCULATED ASSUMING A
*   CONSTANT INDOOR SPACE TEMPERATURE
*
****

*** BUILDING ***

FLOOR AREA	2027	SQFT	188	M2
VOLUME	16216	CUFT	459	M3

	COOLING LOAD				HEATING LOAD			
TIME	AUG 8 4PM				FEB 19 7AM			
DRY-BULB TEMP	87	F	31	C	23	F	-5	C
WET-BULB TEMP	65	F	18	C	22	F	-6	C
TOT HORIZONTAL SOLAR RAD	235	BTU/H.SQFT	740	W/M2	0	BTU/H.SQFT	0	W/M2
WINDSPEED AT SPACE	4.5	KTS	2.3	M/S	6.4	KTS	3.3	M/S
CLOUD AMOUNT 0(CLEAR)-10	0				3			

	SENSIBLE (KBTU/H)	SENSIBLE (KW)	LATENT (KBTU/H)	LATENT (KW)	SENSIBLE (KBTU/H)	SENSIBLE (KW)
WALL CONDUCTION	4.216	1.235	0.000	0.000	-7.727	-2.264
ROOF CONDUCTION	6.904	2.023	0.000	0.000	-6.610	-1.937
WINDOW GLASS+FRM COND	1.878	0.550	0.000	0.000	-12.760	-3.739
WINDOW GLASS SOLAR	11.498	3.369	0.000	0.000	1.289	0.378
DOOR CONDUCTION	0.000	0.000	0.000	0.000	0.000	0.000
INTERNAL SURFACE COND	0.000	0.000	0.000	0.000	0.000	0.000
UNDERGROUND SURF COND	-1.331	-0.390	0.000	0.000	-2.715	-0.796
OCCUPANTS TO SPACE	0.210	0.061	0.000	0.000	0.550	0.161
LIGHT TO SPACE	3.400	0.996	0.000	0.000	0.726	0.213
EQUIPMENT TO SPACE	5.498	1.611	0.000	0.000	0.833	0.244
PROCESS TO SPACE	0.000	0.000	0.000	0.000	0.000	0.000
INFILTRATION	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	32.272	9.456	0.000	0.000	-26.414	-7.739
TOTAL / AREA	0.016	0.050	0.000	0.000	-0.013	-0.041

TOTAL LOAD	32.272	KBTU/H	9.456	KW	-26.414	KBTU/H	-7.739	KW
TOTAL LOAD / AREA	15.92	BTU/H.SQFT	50.213	W/M2	13.031	BTU/H.SQFT	41.098	W/M2

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*****************************************************************
*                                                               *
*  NOTE  1)THE ABOVE LOADS EXCLUDE OUTSIDE VENTILATION AIR      *
*  ----    LOADS                                                *
*        2)TIMES GIVEN IN STANDARD TIME FOR THE LOCATION        *
*          IN CONSIDERATION                                     *
*        3)THE ABOVE LOADS ARE CALCULATED ASSUMING A            *
*          CONSTANT INDOOR SPACE TEMPERATURE                    *
*                                                               *
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REPORT- LS-D BUILDING MONTHLY LOADS SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -						- - - - - - - - H E A T I N G - - - - - - - -						- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.03657	20	13	44.F	40.F	7.146	-8.640	15	7	26.F	24.F	-24.410	1050.	3.030
FEB	0.44618	27	15	68.F	54.F	18.081	-6.351	19	7	23.F	22.F	-26.414	937.	3.030
MAR	1.31560	14	13	58.F	49.F	20.045	-4.917	1	7	31.F	29.F	-20.930	1046.	3.030
APR	2.71197	27	14	79.F	62.F	25.037	-3.061	18	6	38.F	37.F	-17.079	1032.	3.030
MAY	4.21954	15	15	74.F	55.F	28.156	-2.038	18	5	42.F	42.F	-13.507	1046.	3.030
JUN	5.37789	28	14	77.F	60.F	27.737	-0.936	14	6	50.F	48.F	-9.593	1012.	3.030
JUL	6.94489	24	15	87.F	66.F	31.996	-0.478	3	6	53.F	47.F	-5.973	1050.	3.030
AUG	7.11269	8	15	87.F	65.F	32.272	-0.449	18	6	53.F	52.F	-7.631	1046.	3.030
SEP	4.56917	13	14	73.F	63.F	27.961	-1.228	27	6	47.F	47.F	-11.492	1012.	3.030
OCT	2.02959	4	14	70.F	52.F	23.307	-3.004	16	6	44.F	42.F	-14.446	1050.	3.030
NOV	0.41177	4	14	70.F	61.F	20.923	-5.591	24	7	34.F	34.F	-20.465	968.	3.030
DEC	0.16972	5	13	51.F	43.F	8.445	-7.955	26	7	29.F	29.F	-23.489	1050.	3.030
TOTAL	35.346						-44.647						12299.	
MAX						32.272						-26.414		3.030

REPORT- LS-E SPACE MONTHLY LOAD COMPONENTS IN MBTU FOR 1-Tenant 2 Train WEATHER FILE- SEATTLE SEATTLE-T WA

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
	HEATNG	-3.501	-3.027	0.000	-1.825	0.000	-6.085	1.601	0.775	1.371	2.052	0.000	-8.640
JAN	SEN CL	-0.037	-0.036	0.000	-0.045	0.000	-0.134	0.134	0.005	0.056	0.094	0.000	0.037
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-2.633	-2.267	0.000	-1.558	0.000	-4.673	1.716	0.683	0.971	1.411	0.000	-6.351
FEB	SEN CL	-0.161	-0.112	0.000	-0.266	0.000	-0.602	0.745	0.026	0.308	0.509	0.000	0.446
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-2.151	-1.828	0.000	-1.500	0.000	-3.893	1.721	0.718	0.841	1.174	0.000	-4.917
MAR	SEN CL	-0.245	-0.024	0.000	-0.533	0.000	-1.111	1.618	0.057	0.586	0.968	0.000	1.316
	LAT CL					0.000			0.018		0.000	0.000	0.018
	HEATNG	-1.437	-1.210	0.000	-1.081	0.000	-2.671	1.481	0.616	0.537	0.703	0.000	-3.061
APR	SEN CL	-0.218	0.221	0.000	-0.817	0.000	-1.389	2.509	0.123	0.872	1.412	0.000	2.712
	LAT CL					0.000			0.201		0.000	0.000	0.201
	HEATNG	-1.063	-0.879	0.000	-0.789	0.000	-1.991	1.260	0.588	0.374	0.461	0.000	-2.038
MAY	SEN CL	-0.093	0.578	0.000	-0.888	0.000	-1.455	3.154	0.188	1.054	1.682	0.000	4.220
	LAT CL					0.000			0.429		0.000	0.000	0.429
	HEATNG	-0.603	-0.518	0.000	-0.468	0.000	-1.170	0.871	0.451	0.231	0.270	0.000	-0.936
JUN	SEN CL	0.051	0.750	0.000	-0.880	0.000	-1.354	3.555	0.303	1.150	1.803	0.000	5.378
	LAT CL					0.000			0.875		0.000	0.000	0.875
	HEATNG	-0.395	-0.351	0.000	-0.299	0.000	-0.774	0.628	0.355	0.166	0.193	0.000	-0.478
JUL	SEN CL	0.298	1.028	0.000	-0.848	0.000	-1.132	3.952	0.423	1.266	1.958	0.000	6.945
	LAT CL					0.000			1.348		0.000	0.000	1.348
	HEATNG	-0.351	-0.328	0.000	-0.241	0.000	-0.691	0.511	0.311	0.157	0.184	0.000	-0.449
AUG	SEN CL	0.403	0.808	0.000	-0.750	0.000	-0.849	3.799	0.462	1.275	1.963	0.000	7.113
	LAT CL					0.000			1.523		0.000	0.000	1.523
	HEATNG	-0.770	-0.759	0.000	-0.410	0.000	-1.389	0.852	0.517	0.326	0.404	0.000	-1.228
SEP	SEN CL	0.099	0.351	0.000	-0.536	0.000	-1.227	2.926	0.239	1.050	1.665	0.000	4.569
	LAT CL					0.000			0.656		0.000	0.000	0.656
	HEATNG	-1.569	-1.407	0.000	-0.709	0.000	-2.786	1.230	0.687	0.656	0.894	0.000	-3.004
OCT	SEN CL	-0.260	-0.151	0.000	-0.394	0.000	-1.196	1.908	0.091	0.775	1.256	0.000	2.030
	LAT CL					0.000			0.123		0.000	0.000	0.123
	HEATNG	-2.498	-2.177	0.000	-1.122	0.000	-4.342	1.252	0.752	1.038	1.508	0.000	-5.591
NOV	SEN CL	-0.140	-0.111	0.000	-0.177	0.000	-0.510	0.551	0.029	0.289	0.481	0.000	0.412
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-3.252	-2.904	0.000	-1.507	0.000	-5.538	1.335	0.766	1.266	1.878	0.000	-7.955
DEC	SEN CL	-0.088	-0.102	0.000	-0.111	0.000	-0.346	0.374	0.014	0.160	0.267	0.000	0.170
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-20.222	-17.656	0.000	-11.510	0.000	-36.004	14.458	7.218	7.934	11.134	0.000	-44.648
TOT	SEN CL	-0.389	3.200	0.000	-6.244	0.000	-11.306	25.225	1.962	8.840	14.057	0.000	35.346
	LAT CL					0.000			5.171		0.000	0.000	5.171

REPORT- LS-F BUILDING MONTHLY LOAD COMPONENTS IN MBTU WEATHER FILE- SEATTLE SEATTLE-T WA

(UNITS=MBTU)		WALLS	ROOFS	INT SUR	UND SUR	INFIL	WIN CON	WIN SOL	OCCUP	LIGHTS	EQUIP	SOURCE	TOTAL
	HEATNG	-3.501	-3.027	0.000	-1.825	0.000	-6.085	1.601	0.775	1.371	2.052	0.000	-8.640
JAN	SEN CL	-0.037	-0.036	0.000	-0.045	0.000	-0.134	0.134	0.005	0.056	0.094	0.000	0.037
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-2.633	-2.267	0.000	-1.558	0.000	-4.673	1.716	0.683	0.971	1.411	0.000	-6.351
FEB	SEN CL	-0.161	-0.112	0.000	-0.266	0.000	-0.602	0.745	0.026	0.308	0.509	0.000	0.446
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-2.151	-1.828	0.000	-1.500	0.000	-3.893	1.721	0.718	0.841	1.174	0.000	-4.917
MAR	SEN CL	-0.245	-0.024	0.000	-0.533	0.000	-1.111	1.618	0.057	0.586	0.968	0.000	1.316
	LAT CL					0.000			0.018		0.000	0.000	0.018
	HEATNG	-1.437	-1.210	0.000	-1.081	0.000	-2.671	1.481	0.616	0.537	0.703	0.000	-3.061
APR	SEN CL	-0.218	0.221	0.000	-0.817	0.000	-1.389	2.509	0.123	0.872	1.412	0.000	2.712
	LAT CL					0.000			0.201		0.000	0.000	0.201
	HEATNG	-1.063	-0.879	0.000	-0.789	0.000	-1.991	1.260	0.588	0.374	0.461	0.000	-2.038
MAY	SEN CL	-0.093	0.578	0.000	-0.888	0.000	-1.455	3.154	0.188	1.054	1.682	0.000	4.220
	LAT CL					0.000			0.429		0.000	0.000	0.429
	HEATNG	-0.603	-0.518	0.000	-0.468	0.000	-1.170	0.871	0.451	0.231	0.270	0.000	-0.936
JUN	SEN CL	0.051	0.750	0.000	-0.880	0.000	-1.354	3.555	0.303	1.150	1.803	0.000	5.378
	LAT CL					0.000			0.875		0.000	0.000	0.875
	HEATNG	-0.395	-0.351	0.000	-0.299	0.000	-0.774	0.628	0.355	0.166	0.193	0.000	-0.478
JUL	SEN CL	0.298	1.028	0.000	-0.848	0.000	-1.132	3.952	0.423	1.266	1.958	0.000	6.945
	LAT CL					0.000			1.348		0.000	0.000	1.348
	HEATNG	-0.351	-0.328	0.000	-0.241	0.000	-0.691	0.511	0.311	0.157	0.184	0.000	-0.449
AUG	SEN CL	0.403	0.808	0.000	-0.750	0.000	-0.849	3.799	0.462	1.275	1.963	0.000	7.113
	LAT CL					0.000			1.523		0.000	0.000	1.523
	HEATNG	-0.770	-0.759	0.000	-0.410	0.000	-1.389	0.852	0.517	0.326	0.404	0.000	-1.228
SEP	SEN CL	0.099	0.351	0.000	-0.536	0.000	-1.227	2.926	0.239	1.050	1.665	0.000	4.569
	LAT CL					0.000			0.656		0.000	0.000	0.656
	HEATNG	-1.569	-1.407	0.000	-0.709	0.000	-2.786	1.230	0.687	0.656	0.894	0.000	-3.004
OCT	SEN CL	-0.260	-0.151	0.000	-0.394	0.000	-1.196	1.908	0.091	0.775	1.256	0.000	2.030
	LAT CL					0.000			0.123		0.000	0.000	0.123
	HEATNG	-2.498	-2.177	0.000	-1.122	0.000	-4.342	1.252	0.752	1.038	1.508	0.000	-5.591
NOV	SEN CL	-0.140	-0.111	0.000	-0.177	0.000	-0.510	0.551	0.029	0.289	0.481	0.000	0.412
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-3.252	-2.904	0.000	-1.507	0.000	-5.538	1.335	0.766	1.266	1.878	0.000	-7.955
DEC	SEN CL	-0.088	-0.102	0.000	-0.111	0.000	-0.346	0.374	0.014	0.160	0.267	0.000	0.170
	LAT CL					0.000			0.000		0.000	0.000	0.000
	HEATNG	-20.222	-17.656	0.000	-11.510	0.000	-36.004	14.458	7.218	7.934	11.134	0.000	-44.648
TOT	SEN CL	-0.389	3.200	0.000	-6.244	0.000	-11.306	25.225	1.962	8.840	14.057	0.000	35.346
	LAT CL					0.000			5.171		0.000	0.000	5.171

SPACE 1-Tenant 2 Train

	- - - - L I G H T I N G - - - -		E Q U I P M E N T - - - - - - - - - -	P R O C E S S - - - - - - - - -		
MONTH	TASK LIGHTING (KWH)	TOTAL LIGHTING (KWH)	GENERAL EQUIPMENT (KWH)	PROCESS ELECTRIC (KWH)	PROCESS GAS (MBTU)	PROCESS HOT WATER (MBTU)
JAN	0.00	419.71	630.29	0.00	0.0000	0.0000
FEB	0.00	374.59	562.49	0.00	0.0000	0.0000
MAR	0.00	418.01	627.66	0.00	0.0000	0.0000
APR	0.00	412.62	619.65	0.00	0.0000	0.0000
MAY	0.00	418.01	627.66	0.00	0.0000	0.0000
JUN	0.00	404.67	607.69	0.00	0.0000	0.0000
JUL	0.00	419.71	630.29	0.00	0.0000	0.0000
AUG	0.00	418.01	627.66	0.00	0.0000	0.0000
SEP	0.00	404.67	607.69	0.00	0.0000	0.0000
OCT	0.00	419.71	630.29	0.00	0.0000	0.0000
NOV	0.00	387.08	581.14	0.00	0.0000	0.0000
DEC	0.00	419.71	630.29	0.00	0.0000	0.0000
ANNUAL	0.00	4916.30	7382.86	0.00	0.0000	0.0000

BUILDING

	- - - - L I G H T I N G - - - -		E Q U I P M E N T - - - - - - - - - -	P R O C E S S - - - - - - - - -		
MONTH	TASK LIGHTING (KWH)	TOTAL LIGHTING (KWH)	GENERAL EQUIPMENT (KWH)	PROCESS ELECTRIC (KWH)	PROCESS GAS (MBTU)	PROCESS HOT WATER (MBTU)
JAN	0.00	419.71	630.29	0.00	0.0000	0.0000
FEB	0.00	374.59	562.49	0.00	0.0000	0.0000
MAR	0.00	418.01	627.66	0.00	0.0000	0.0000
APR	0.00	412.62	619.65	0.00	0.0000	0.0000
MAY	0.00	418.01	627.66	0.00	0.0000	0.0000
JUN	0.00	404.67	607.69	0.00	0.0000	0.0000
JUL	0.00	419.71	630.29	0.00	0.0000	0.0000
AUG	0.00	418.01	627.66	0.00	0.0000	0.0000
SEP	0.00	404.67	607.69	0.00	0.0000	0.0000
OCT	0.00	419.71	630.29	0.00	0.0000	0.0000
NOV	0.00	387.08	581.14	0.00	0.0000	0.0000
DEC	0.00	419.71	630.29	0.00	0.0000	0.0000
ANNUAL	0.00	4916.30	7382.86	0.00	0.0000	0.0000

REPORT- LS-L MANAGEMENT AND SOLAR SUMMARY FOR SPACE 1-Tenant 2 Train WEATHER FILE- SEATTLE SEATTLE-T WA

DATA FOR SPACE 1-Tenant 2 Train

MONTH	NUMBER OF HOURS MANAGEMENT WOULD BE EMPLOYED	AVERAGE DAILY SOLAR RADIATION INTO SPACE (BTU/DAY)	MAXIMUM HOURLY SOLAR RADIATION INTO SPACE (BTU/HR)
JAN	48.	56142.051	22179.992
FEB	71.	88345.734	23739.557
MAR	84.	107447.547	24174.000
APR	115.	133256.031	22520.461
MAY	86.	143143.875	24189.309
JUN	100.	147318.078	20225.396
JUL	121.	147876.906	22106.910
AUG	145.	138531.031	20657.328
SEP	130.	125993.781	21877.344
OCT	100.	100524.812	23145.684
NOV	41.	59959.875	22333.057
DEC	53.	55251.480	21581.393
ANNUAL	1094.	108728.492	24189.309

REPORT- SV-A SYSTEM DESIGN PARAMETERS SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

SYSTEM NAME	SYSTEM TYPE	ALTITUDE MULTIPLIER	FLOOR AREA (SQFT)	MAX PEOPLE
SYSTEM-1	PSZ	1.000	2027.0	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)
2445.	1.917	2.4	0.	0.000	0.0	0.123	95.200	0.616	-65.820	0.28	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
1-Tenant 2 Train	2445.	0.	0.000	1.000	300.	0.00	0.00	52.05	0.00	-57.57	1.0

REPORT- SS-D PLANT MONTHLY LOADS SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000				0.000	0.000				0.000	1892.	4.947
FEB	0.00000				0.000	0.000				0.000	1692.	4.947
MAR	0.00000				0.000	0.000				0.000	1889.	4.947
APR	0.00000				0.000	0.000				0.000	1890.	6.837
MAY	0.00000				0.000	0.000				0.000	1965.	7.151
JUN	0.00000				0.000	0.000				0.000	1963.	7.404
JUL	0.00000				0.000	0.000				0.000	2216.	8.409
AUG	0.00000				0.000	0.000				0.000	2315.	8.459
SEP	0.00000				0.000	0.000				0.000	1942.	7.600
OCT	0.00000				0.000	0.000				0.000	1896.	6.045
NOV	0.00000				0.000	0.000				0.000	1761.	5.325
DEC	0.00000				0.000	0.000				0.000	1892.	4.947
TOTAL	0.000					0.000					23311.	
MAX					0.000					0.000		8.459

MAXIMUM DAILY INTEGRATED COOLING LOAD (DES DAY) 0.000 (KBTU)
MAXIMUM DAILY INTEGRATED COOLING LOAD (WTH FILE) 0.000 (KBTU)

REPORT- SS-E PLANT MONTHLY LOAD HOURS FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - - - - - - - - - - - N U M B E R O F H O U R S - - - - - - - - - - - - - - - - - -										--COINCIDENT LOADS--	
MONTH	HOURS COOLING LOAD	HOURS HEATING LOAD	HOURS COINCIDENT COOL-HEAT LOAD	HOURS FLOATING	HOURS HEATING AVAIL.	HOURS COOLING AVAIL.	HOURS FANS ON	HOURS FANS CYCLE ON	HOURS NIGHT VENTING	HOURS FLOATING WHEN FANS ON	HEATING LOAD AT COOLING PEAK (KBTU/HR)	ELECTRIC LOAD AT COOLING PEAK (KW)
JAN	0	435	0	309	744	744	439	0	0	4	0.000	0.172
FEB	0	342	0	330	672	672	394	0	0	52	0.000	0.172
MAR	0	273	0	471	744	744	440	0	0	167	0.000	0.172
APR	27	120	0	573	720	720	430	0	0	283	0.000	0.172
MAY	64	54	0	626	744	744	440	0	0	322	0.000	0.172
JUN	116	7	0	597	720	720	424	0	0	301	0.000	0.172
JUL	203	0	0	541	744	744	439	0	0	236	0.000	0.172
AUG	232	0	0	512	744	744	440	0	0	208	0.000	0.172
SEP	85	19	0	616	720	720	424	0	0	320	0.000	0.172
OCT	7	164	0	573	744	744	439	0	0	268	0.000	0.172
NOV	2	339	0	379	720	720	413	0	0	72	0.000	0.172
DEC	0	424	0	320	744	744	439	0	0	15	0.000	0.172
ANNUAL	736	2177	0	5847	8760	8760	5161	0	0	2248		

REPORT- SS-M FAN ELECTRIC ENERGY FOR PLANT PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	FAN ELECTRIC ENERGY DURING HEATING (KWH)	FAN ELECTRIC ENERGY DURING COOLING (KWH)	FAN ELECTRIC ENERGY DURING HEATING-COOLING (KWH)	FAN ELECTRIC ENERGY DURING FLOATING (KWH)
JAN	833.840	0.000	0.000	7.668
FEB	655.571	0.000	0.000	99.678
MAR	523.307	0.000	0.000	320.119
APR	230.026	51.756	0.000	542.476
MAY	103.511	122.680	0.000	617.234
JUN	13.418	222.358	0.000	576.980
JUL	0.000	389.126	0.000	452.383
AUG	0.000	444.715	0.000	398.711
SEP	36.421	162.935	0.000	613.400
OCT	314.368	13.418	0.000	513.723
NOV	649.821	3.834	0.000	138.015
DEC	812.755	0.000	0.000	28.753
ANNUAL	4173.163	1410.818	0.000	4309.270

REPORT- SS-P LOAD, ENERGY AND PART LOAD DHW TANK OPERATION FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

TANK SIZE is 30.0 (GAL) HEATER CAP = 17.516 (KBTU/HR) FLOW RATE = 0.042 (GAL/MIN) PUMP = 0.000 (KW)

MONTH	SUM PEAK	UNIT LOAD (MBTU) (KBTU/HR)	ENERGY USE (MBTU) (KBTU/HR)	RCV EN USE (MBTU) (KBTU/HR)	PUMP ENERGY (KWH) (KW)	Number of hours within each PART LOAD range 00–10	10–20	20–30	30–40	40–50	50–60	60–70	70–80	80–90	90–100	100+	TOTAL RUN HOURS
JAN	SUM	0.289	0.966	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	31/13	31/13	31/24	31/24												
FEB	SUM	0.259	0.870	0.000	0.000	672	0	0	0	0	0	0	0	0	0	0	672
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	28/13	28/13	28/24	28/24												
MAR	SUM	0.289	0.966	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	31/13	31/13	31/24	31/24												
APR	SUM	0.282	0.939	0.000	0.000	720	0	0	0	0	0	0	0	0	0	0	720
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	30/13	30/13	30/ 1	30/ 1												
MAY	SUM	0.289	0.966	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	30/13	30/13	31/ 1	31/ 1												
JUN	SUM	0.279	0.934	0.000	0.000	720	0	0	0	0	0	0	0	0	0	0	720
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	30/13	30/13	30/ 1	30/ 1												
JUL	SUM	0.289	0.966	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	31/13	31/13	31/ 1	31/ 1												
AUG	SUM	0.289	0.966	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	29/13	29/13	31/ 1	31/ 1												
SEP	SUM	0.279	0.934	0.000	0.000	720	0	0	0	0	0	0	0	0	0	0	720
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	30/13	30/13	30/ 1	30/ 1												
OCT	SUM	0.289	0.966	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	31/13	31/13	31/24	31/24												
NOV	SUM	0.273	0.924	0.000	0.000	720	0	0	0	0	0	0	0	0	0	0	720
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	28/13	28/13	30/24	30/24												
DEC	SUM	0.289	0.966	0.000	0.000	744	0	0	0	0	0	0	0	0	0	0	744
	PEAK	0.912	2.171	0.000	0.000												
	DAY/HR	31/13	31/13	31/24	31/24												
YR	SUM	3.394	11.361	0.000	0.000	8760	0	0	0	0	0	0	0	0	0	0	8760
	PEAK	0.912	2.171	0.000	0.000												
	MON/DAY	12/31	12/31	12/31	12/31												

REPORT- SS-Q HEAT PUMP COOLING SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)		INDOOR FAN ENERGY (MBTU)
JAN	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
FEB	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.170
MAR	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.546
APR	7.	0.394	0.113	0.000	0.000	0.000	0.000	0.000	0.000	1.102
MAY	16.	0.967	0.260	0.000	0.000	0.000	0.000	0.000	0.000	1.472
JUN	30.	1.733	0.470	0.000	0.000	0.000	0.000	0.000	0.000	1.744
JUL	58.	4.173	1.108	0.000	0.000	0.000	0.000	0.000	0.000	2.100
AUG	71.	5.456	1.455	0.000	0.000	0.000	0.000	0.000	0.000	2.198
SEP	23.	1.545	0.397	0.000	0.000	0.000	0.000	0.000	0.000	1.603
OCT	2.	0.053	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.926
NOV	0.	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.249
DEC	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049
0ANNUAL	208.	14.330	3.820	0.000	0.000	0.000	0.000	0.000	0.000	12.172

0CSPF (WITH PARASITICS) = 0.90 (KBTU/HR)
0CSPF (WITHOUT PARASITICS) = 3.75 (BTU/BTU)

REPORT- SS-Q HEAT PUMP HEATING SUMMARY FOR PLANT-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)	DEFROST LOAD (MBTU)	INDOOR FAN ENERGY (MBTU)
JAN	125.	-8.220	11.431	0.000	0.000	0.000	0.000	0.000	0.000	2.859
FEB	81.	-5.364	7.562	0.000	0.000	0.000	0.000	0.000	0.000	2.408
MAR	42.	-2.784	4.110	0.000	0.000	0.000	0.000	0.000	0.000	2.332
APR	15.	-1.013	1.530	0.000	0.000	0.000	0.000	0.000	0.000	1.711
MAY	5.	-0.305	0.491	0.000	0.000	0.000	0.000	0.000	0.000	1.407
JUN	0.	-0.013	0.028	0.000	0.000	0.000	0.000	0.000	0.000	1.030
JUL	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.772
AUG	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.680
SEP	1.	-0.052	0.099	0.000	0.000	0.000	0.000	0.000	0.000	1.171
OCT	16.	-1.069	1.676	0.000	0.000	0.000	0.000	0.000	0.000	1.946
NOV	65.	-4.287	6.183	0.000	0.000	0.000	0.000	0.000	0.000	2.453
DEC	109.	-7.185	10.088	0.000	0.000	0.000	0.000	0.000	0.000	2.823
0ANNUAL	460.	-30.293	43.197	0.000	0.000	0.000	0.000	0.000	0.000	21.593

0HSPF (WITH PARASITICS) = 0.80 (KBTU/HR)
0HSPF (WITHOUT PARASITICS) = 0.70 (BTU/BTU)

REPORT- SS-A SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY	TIME OF MAX HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000					0.000	-8.220	6	8	27.F	27.F	-45.306	1892.	4.947
FEB	0.00000					0.000	-5.364	18	7	28.F	27.F	-46.243	1692.	4.947
MAR	0.00000					0.000	-2.784	24	7	36.F	29.F	-30.742	1889.	4.947
APR	0.39431	27	16	81.F	63.F	27.255	-1.013	18	8	39.F	37.F	-24.840	1890.	6.837
MAY	0.96689	5	14	74.F	62.F	29.689	-0.305	18	9	43.F	42.F	-16.657	1965.	7.151
JUN	1.73339	28	16	79.F	60.F	31.620	-0.013	14	8	51.F	49.F	-3.939	1963.	7.404
JUL	4.17260	24	16	87.F	66.F	41.400	0.000					0.000	2216.	8.409
AUG	5.45619	10	15	85.F	67.F	42.047	0.000					0.000	2315.	8.459
SEP	1.54540	23	15	74.F	64.F	39.092	-0.052	27	8	48.F	47.F	-9.825	1942.	7.600
OCT	0.05304	4	16	71.F	53.F	13.466	-1.069	16	8	43.F	42.F	-19.820	1896.	6.045
NOV	0.00826	4	14	70.F	61.F	4.780	-4.287	24	7	34.F	34.F	-36.784	1761.	5.325
DEC	0.00000					0.000	-7.185	26	8	30.F	30.F	-43.830	1892.	4.947
TOTAL	14.330						-30.293						23311.	
MAX						42.047						-46.243		8.459

REPORT- SS-B SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- -Z O N E C O O L I N G- -		- -Z O N E H E A T I N G -		- - B A S E B O A R D S - -		--PREHEAT OR FURN FAN ELEC--	
MONTH	COOLING BY ZONE COILS OR NAT VENTIL (MBTU)	MAXIMUM COOLING BY ZONE COILS OR NAT VENTIL (KBTU/HR)	HEATING BY ZONE COILS OR FURNACE (MBTU)	MAXIMUM HEATING BY ZONE COILS OR FURNACE (KBTU/HR)	BASEBOARD HEATING ENERGY (MBTU)	MAXIMUM BASEBOARD HEATING ENERGY (KBTU/HR)	PREHEAT COIL ENERGY OR ELEC FOR FURN FAN (MBTU)	MAXIMUM PREHEAT COIL ENERGY OR ELEC FOR FURN FAN (KBTU/HR)
JAN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
FEB	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
APR	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
MAY	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUN	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
JUL	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
AUG	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
SEP	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
OCT	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
NOV	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
DEC	0.00000	0.000	0.00000	0.000	0.00000	0.000	0.00000	0.000
0TOTAL	0.000		0.000		0.000		0.000	
0MAX		0.000		0.000		0.000		0.000

REPORT- SS-C SYSTEM MONTHLY LOAD HOURS FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	HOURS COOLING LOAD	HOURS HEATING LOAD	HOURS COINCIDENT COOL-HEAT LOAD	HOURS FLOATING	HOURS HEATING AVAIL.	HOURS COOLING AVAIL.	HOURS FANS ON	HOURS FANS CYCLE ON	HOURS NIGHT VENTING	HOURS FLOATING WHEN FANS ON	HEATING LOAD AT COOLING PEAK (KBTU/HR)	ELECTRIC LOAD AT COOLING PEAK (KW)
	- - - - - - - - - - - - - - - - - - N U M B E R O F H O U R S - - - - - - - - - - - - - - - - - -										--COINCIDENT LOADS--	
JAN	0	435	0	309	744	744	439	0	0	4	0.000	0.172
FEB	0	342	0	330	672	672	394	0	0	52	0.000	0.172
MAR	0	273	0	471	744	744	440	0	0	167	0.000	0.172
APR	27	120	0	573	720	720	430	0	0	283	0.000	6.143
MAY	64	54	0	626	744	744	440	0	0	322	0.000	7.109
JUN	116	7	0	597	720	720	424	0	0	301	0.000	7.404
JUL	203	0	0	541	744	744	439	0	0	236	0.000	8.409
AUG	232	0	0	512	744	744	440	0	0	208	0.000	7.323
SEP	85	19	0	616	720	720	424	0	0	320	0.000	7.600
OCT	7	164	0	573	744	744	439	0	0	268	0.000	6.045
NOV	2	339	0	379	720	720	413	0	0	72	0.000	5.325
DEC	0	424	0	320	744	744	439	0	0	15	0.000	0.172
ANNUAL	736	2177	0	5847	8760	8760	5161	0	0	2248		

Baseline Building (90.1 Appendix G) East Town Crossing Lot 1 Tenant 2 DOE-2.1E-124 Tue Jun 3 14:28:18 2025SDL RUN 1

REPORT- SS-H SYSTEM MONTHLY LOADS SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- -F A N E L E C- - -		- -F U E L H E A T- -		- -F U E L C O O L- -		-E L E C H E A T- -		-E L E C C O O L- -	
MONTH	FAN ENERGY (KWH)	MAXIMUM FAN LOAD (KW)	GAS OIL ENERGY (MBTU)	MAXIMUM GAS OIL LOAD (KBTU/HR)	GAS OIL ENERGY (MBTU)	MAXIMUM GAS OIL LOAD (KBTU/HR)	ELECTRIC ENERGY (KWH)	MAXIMUM ELECTRIC LOAD (KW)	ELECTRIC ENERGY (KWH)	MAXIMUM ELECTRIC LOAD (KW)
JAN	842.	1.917	11.431	58.676	0.000	0.000	0.	0.000	0.	0.000
FEB	755.	1.917	7.562	59.766	0.000	0.000	0.	0.000	0.	0.000
MAR	843.	1.917	4.110	41.254	0.000	0.000	0.	0.000	0.	0.000
APR	824.	1.917	1.530	33.939	0.000	0.000	0.	0.000	33.	2.230
MAY	843.	1.917	0.491	23.548	0.000	0.000	0.	0.000	76.	2.204
JUN	813.	1.917	0.028	6.835	0.000	0.000	0.	0.000	138.	2.457
JUL	842.	1.917	0.000	0.000	0.000	0.000	0.	0.000	325.	3.462
AUG	843.	1.917	0.000	0.000	0.000	0.000	0.	0.000	426.	3.511
SEP	813.	1.917	0.099	14.656	0.000	0.000	0.	0.000	116.	2.653
OCT	842.	1.917	1.676	27.598	0.000	0.000	0.	0.000	4.	1.097
NOV	792.	1.917	6.183	48.591	0.000	0.000	0.	0.000	1.	0.378
DEC	842.	1.917	10.088	56.951	0.000	0.000	0.	0.000	0.	0.000
0TOTAL	9893.		43.197		0.000		0.		1119.	
0MAX		1.917		59.766		0.000		0.000		3.511

REPORT- SS-I SYSTEM MONTHLY SENSIBLE LATENT SUMMARY FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	SENSIBLE COOLING ENERGY (MBTU)	LATENT COOLING ENERGY (MBTU)	MAX TOTAL COOLING ENERGY (KBTU/HR)	SENSIBLE HEAT RATIO AT MAX	TIME OF MAX DY	TIME OF MAX HR	SENSIBLE HEATING ENERGY (MBTU)	LATENT HEATING ENERGY (MBTU)	MAX TOTAL HEATING ENERGY (KBTU/HR)
JAN	0.00000	0.00000	0.000				-8.21965	0.00000	-45.30610
FEB	0.00000	0.00000	0.000				-5.36416	0.00000	-46.24329
MAR	0.00000	0.00000	0.000				-2.78395	0.00000	-30.74155
APR	0.38509	0.00922	27.255	0.959	27	16	-1.01282	0.00000	-24.840
MAY	0.86955	0.09734	29.689	0.781	5	14	-0.30531	0.00000	-16.657
JUN	1.66534	0.06805	31.620	1.000	28	16	-0.01283	0.00000	-3.939
JUL	3.70914	0.46346	41.400	0.954	24	16	0.00000	0.00000	0.000
AUG	4.87302	0.58317	42.047	0.917	10	15	0.00000	0.00000	0.000
SEP	1.27534	0.27006	39.092	0.666	23	15	-0.05242	0.00000	-9.825
OCT	0.05301	0.00004	13.466	1.000	4	16	-1.06946	0.00000	-19.820
NOV	0.00599	0.00227	4.780	0.722	4	14	-4.28694	0.00000	-36.784
DEC	0.00000	0.00000	0.000				-7.18504	0.00000	-43.83009
TOTAL	12.836	1.494					-30.293	0.000	
MAX			42.047	0.917					-46.243

REPORT- SS-J SYSTEM PEAK HEATING AND COOLING DAYS FOR SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - C O O L I N G - - - - -				- - - H E A T I N G - - -			D A Y C O O L I N G P E A K			
	AUG 10				FEB 18			JUL 24			
HOUR	HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP	HOURLY HEATING LOAD (KBTU)	DRY-BULB TEMP	WET-BULB TEMP	HOURLY COOLING LOAD (KBTU)	SENSIBLE HEAT RATIO	DRY-BULB TEMP	WET-BULB TEMP
1	0.000	0.000	66.F	59.F	0.000	29.F	27.F	0.000	0.000	65.F	57.F
2	0.000	0.000	62.F	57.F	0.000	31.F	29.F	0.000	0.000	63.F	56.F
3	0.000	0.000	65.F	59.F	0.000	31.F	29.F	0.000	0.000	62.F	56.F
4	0.000	0.000	64.F	58.F	0.000	30.F	28.F	0.000	0.000	62.F	56.F
5	0.000	0.000	63.F	58.F	0.000	30.F	28.F	0.000	0.000	60.F	55.F
6	0.000	0.000	63.F	59.F	0.000	29.F	27.F	0.000	0.000	63.F	57.F
7	0.000	0.000	67.F	61.F	-46.243	28.F	27.F	0.000	0.000	66.F	59.F
8	5.797	0.772	70.F	62.F	-46.083	29.F	28.F	14.790	0.755	71.F	61.F
9	27.130	0.682	73.F	63.F	-41.730	31.F	30.F	28.928	0.923	75.F	62.F
10	34.925	0.709	74.F	63.F	-32.051	34.F	32.F	31.719	0.922	76.F	63.F
11	32.163	0.894	76.F	64.F	-25.818	35.F	31.F	35.839	0.938	80.F	64.F
12	37.067	0.910	79.F	65.F	-21.284	37.F	32.F	35.644	0.931	79.F	64.F
13	37.508	0.904	81.F	66.F	-22.968	38.F	32.F	38.475	0.943	83.F	65.F
14	42.047	0.917	85.F	67.F	-18.232	40.F	33.F	40.332	0.958	85.F	65.F
15	39.424	0.945	86.F	66.F	-18.962	38.F	31.F	41.400	0.954	87.F	66.F
16	40.181	0.957	88.F	66.F	-18.963	37.F	31.F	38.230	0.952	84.F	65.F
17	0.000	0.000	89.F	66.F	-21.649	34.F	32.F	35.538	0.963	83.F	64.F
18	0.000	0.000	87.F	67.F	-23.530	31.F	29.F	34.673	0.946	84.F	65.F
19	0.000	0.000	86.F	65.F	-25.263	31.F	29.F	30.218	0.971	82.F	63.F
20	0.000	0.000	78.F	64.F	-26.537	29.F	27.F	23.774	0.927	75.F	62.F
21	0.000	0.000	73.F	62.F	-26.882	29.F	27.F	0.000	0.000	73.F	62.F
22	0.000	0.000	73.F	60.F	0.000	30.F	28.F	0.000	0.000	69.F	60.F
23	0.000	0.000	65.F	60.F	0.000	29.F	27.F	0.000	0.000	67.F	60.F
24	0.000	0.000	62.F	58.F	0.000	28.F	26.F	0.000	0.000	62.F	58.F
SUM								429.561			
MAX	42.047				-46.243						

SYSTEM-TYPE	PSZ	SQFT/TON	578.5
COOLING PEAK	20.74 (BTU/HR- SQFT)	HEATING PEAK	-22.81 (BTU/HR- SQFT)
SUPPLY AIR PEAK FLOW	1.21 (CFM/SQFT)	MIN-OA/PERSON	30.00 (CFM)
OA FRAC AT CLG PEAK	0.123	OA FRAC AT HTG PEAK	0.123

** ASTERISKS INDICATE HOURS LOADS NOT MET*

	AVERAGE SPACE TEMP					AVERAGE TEMPERATURE DIFFERENCE BETWEEN OUTDOOR& ROOM AIR			SUMMED TEMP DIFFERENCE BETWEEN OUTDOOR& ROOM AIR		
MONTH	ALL HOURS (F)	COOLING HOURS (F)	HEATING HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	ALL HOURS (F)	FAN ON HOURS (F)	FAN OFF HOURS (F)	HEATING HOURS (F)	ALL HOURS (F)	HUMIDITY RATIO DIFFERENCE BETWEEN OUTDOOR AND ROOM AIR (FRAC.OR MULT.)
JAN	68.22		70.43	70.44	65.02	-28.13	-29.49	-26.17	537.03	871.97	-0.00005
FEB	68.69		70.52	70.74	65.80	-26.21	-26.66	-25.57	400.93	733.94	-0.00003
MAR	69.78		70.65	71.29	67.58	-22.79	-22.21	-23.64	277.74	706.55	0.00000
APR	71.44	74.61	70.66	72.45	69.94	-19.90	-18.51	-21.96	120.58	601.23	0.00002
MAY	72.70	74.73	70.96	73.40	71.70	-17.35	-15.17	-20.51	50.16	538.60	0.00006
JUN	73.85	74.76	70.89	74.13	73.44	-13.79	-11.34	-17.30	5.68	416.42	0.00004
JUL	74.51	74.83		74.47	74.56	-10.71	-7.60	-15.18		354.18	0.00016
AUG	74.63	74.85		74.49	74.83	-8.79	-5.63	-13.37		320.54	0.00047
SEP	73.49	74.80	71.32	73.80	73.04	-14.34	-12.69	-16.69	15.09	430.60	0.00005
OCT	71.31	74.66	70.81	72.22	70.01	-18.75	-17.91	-19.96	143.39	581.24	-0.00001
NOV	69.23	74.45	70.61	70.89	66.98	-22.71	-23.35	-21.85	353.71	681.31	-0.00008
DEC	68.43		70.49	70.51	65.43	-26.68	-27.60	-25.36	492.52	827.20	-0.00004
ANNUAL	71.37	74.80	70.57	72.42	69.87	-19.14	-18.11	-20.61	2396.82	7063.78	0.00005

MONTH	FAN ELEC DURING HEATING (KWH)	FAN ELEC DURING COOLING (KWH)	FAN ELEC DURING HEAT & COOL (KWH)	FAN ELEC DURING FLOATING (KWH)	Number of hours within each PART LOAD range 00-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100+	TOTAL RUN HOURS
JAN	833.840	0.000	0.000	7.668	0	0	0	0	0	0	0	0	0	0	439	439
FEB	655.571	0.000	0.000	99.678	0	0	0	0	0	0	0	0	0	0	394	394
MAR	523.307	0.000	0.000	320.119	0	0	0	0	0	0	0	0	0	0	440	440
APR	230.026	51.756	0.000	542.476	0	0	0	0	0	0	0	0	0	0	430	430
MAY	103.511	122.680	0.000	617.234	0	0	0	0	0	0	0	0	0	0	440	440
JUN	13.418	222.358	0.000	576.980	0	0	0	0	0	0	0	0	0	0	424	424
JUL	0.000	389.126	0.000	452.383	0	0	0	0	0	0	0	0	0	0	439	439
AUG	0.000	444.715	0.000	398.711	0	0	0	0	0	0	0	0	0	0	440	440
SEP	36.421	162.935	0.000	613.400	0	0	0	0	0	0	0	0	0	0	424	424
OCT	314.368	13.418	0.000	513.723	0	0	0	0	0	0	0	0	0	0	439	439
NOV	649.821	3.834	0.000	138.015	0	0	0	0	0	0	0	0	0	0	413	413
DEC	812.755	0.000	0.000	28.753	0	0	0	0	0	0	0	0	0	0	439	439
ANNUAL	4173.163	1410.818	0.000	4309.270	0	0	0	0	0	0	0	0	0	0	5161	5161

TOTAL HOURS AT RELATIVE HUMIDITY LEVEL AND TIME OF DAY

HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
90-100	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
80-89	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
70-79	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
60-69	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4
50-59	0	0	0	0	0	26	32	34	27	27	29	25	26	15	15	11	13	14	15	18	6	0	0	0	333
40-49	0	0	0	0	0	91	100	109	120	117	110	105	92	94	87	86	73	79	85	84	21	2	0	0	1455
30-39	0	0	0	0	0	48	99	115	129	133	134	138	154	156	161	154	134	117	110	124	69	12	0	0	1987
20-29	0	0	0	0	0	5	52	55	68	73	75	83	80	84	82	99	90	73	74	54	49	7	0	0	1103
10-19	0	0	0	0	0	0	20	23	20	14	16	14	13	16	20	14	21	20	20	22	16	2	0	0	271
0-09	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	1	2	0	0	0	8

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*                                                            *
*  NOTE  1)THE RELATIVE HUMIDITY COUNTS ARE MADE ONLY FOR    *
*          THE HOURS WHEN THE FANS ARE ON                    *
*                                                            *
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REPORT- SS-P LOAD, ENERGY AND PART LOAD HEATING IN SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

UNIT TYPE is PSZ HEATING-CAPACITY = -65.820 (KBTU/HR) HEATING-EIR = 0.370 (BTU/BTU) SUPPLY-FLOW = 2445. (CFM)

MONTH		UNIT LOAD SUM (MBTU) PEAK (KBTU/HR)	ENERGY USE (KWH) (KW)	COMPRESSOR (KWH) (KW)	FAN ENERGY (KWH) (KW)		Number of hours within each PART LOAD range 00–10	10–20	20–30	30–40	40–50	50–60	60–70	70–80	80–90	90–100	100+	TOTAL RUN HOURS
JAN	SUM	-8.220	0.000	0.000	841.508	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-45.306	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	435	435
	DAY/HR	6/ 8	31/24	0/ 0	31/21													
FEB	SUM	-5.364	0.000	0.000	755.248	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-46.243	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	342	342
	DAY/HR	18/ 7	28/24	0/ 0	28/21													
MAR	SUM	-2.784	0.000	0.000	843.424	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-30.742	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	273	273
	DAY/HR	24/ 7	31/24	0/ 0	31/21													
APR	SUM	-1.013	0.000	0.000	824.256	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-24.840	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	120	120
	DAY/HR	18/ 8	30/ 1	0/ 0	30/21													
MAY	SUM	-0.305	0.000	0.000	843.424	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-16.657	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	54	54
	DAY/HR	18/ 9	31/ 1	0/ 0	31/22													
JUN	SUM	-0.013	0.000	0.000	812.755	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-3.939	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	7	7
	DAY/HR	14/ 8	30/ 1	0/ 0	30/21													
JUL	SUM	0.000	0.000	0.000	841.508	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/ 1	31/ 1	0/ 0	31/21													
AUG	SUM	0.000	0.000	0.000	843.424	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/ 1	31/ 1	0/ 0	31/17													
SEP	SUM	-0.052	0.000	0.000	812.755	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-9.825	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	19	19
	DAY/HR	27/ 8	30/ 1	0/ 0	30/21													
OCT	SUM	-1.069	0.000	0.000	841.508	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-19.820	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	164	164
	DAY/HR	16/ 8	31/24	0/ 0	31/21													
NOV	SUM	-4.287	0.000	0.000	791.669	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-36.784	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	339	339
	DAY/HR	24/ 7	30/24	0/ 0	30/17													
DEC	SUM	-7.185	0.000	0.000	841.508	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-43.830	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	424	424
	DAY/HR	26/ 8	31/24	0/ 0	31/21													
YR	SUM	-30.293	0.000	0.000	9893.468	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	-46.243	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	2177	2177
	MON/DAY	2/18	12/31	0/ 0	12/31													

REPORT- SS-P LOAD, ENERGY AND PART LOAD COOLING IN SYSTEM-1 WEATHER FILE- SEATTLE SEATTLE-T WA

UNIT TYPE is PSZ COOLING-CAPACITY = 95.200 (KBTU/HR) COOLING-EIR = 0.285 (BTU/BTU) SUPPLY-FLOW = 2445. (CFM)

MONTH		UNIT LOAD (MBTU) (KBTU/HR)	ENERGY USE (KWH) (KW)	COMPRESSOR (KWH) (KW)	FAN ENERGY (KWH) (KW)		00 10	10 20	20 30	30 40	40 50	50 60	60 70	70 80	80 90	90 100	100 +	TOTAL RUN HOURS
JAN	SUM	0.000	0.000	0.000	841.508	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/24	31/24	0/ 0	31/21													
FEB	SUM	0.000	0.000	0.000	755.248	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	28/24	28/24	0/ 0	28/21													
MAR	SUM	0.000	0.000	0.000	843.424	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/24	31/24	0/ 0	31/21													
APR	SUM	0.394	33.014	33.014	824.256	CMP	0	0	27	0	0	0	0	0	0	0	0	27
	PEAK	27.255	2.230	2.230	1.917	FAN	0	0	0	0	0	0	0	0	0	0	27	27
	DAY/HR	27/16	27/16	27/16	30/21													
MAY	SUM	0.967	76.282	76.282	843.424	CMP	0	0	60	4	0	0	0	0	0	0	0	64
	PEAK	29.689	2.204	2.204	1.917	FAN	0	0	0	0	0	0	0	0	0	0	64	64
	DAY/HR	5/14	5/15	5/15	31/22													
JUN	SUM	1.733	137.588	137.588	812.755	CMP	2	0	104	12	0	0	0	0	0	0	0	118
	PEAK	31.620	2.457	2.457	1.917	FAN	0	0	0	0	0	0	0	0	0	0	116	116
	DAY/HR	28/16	28/16	28/16	30/21													
JUL	SUM	4.173	324.526	324.526	841.508	CMP	1	0	140	55	8	0	0	0	0	0	0	204
	PEAK	41.400	3.462	3.462	1.917	FAN	0	0	0	0	0	0	0	0	0	0	203	203
	DAY/HR	24/16	24/16	24/16	31/21													
AUG	SUM	5.456	426.392	426.392	843.424	CMP	0	0	132	69	31	0	0	0	0	0	0	232
	PEAK	42.047	3.511	3.511	1.917	FAN	0	0	0	0	0	0	0	0	0	0	232	232
	DAY/HR	10/15	29/17	29/17	31/17													
SEP	SUM	1.545	116.419	116.419	812.755	CMP	1	0	64	21	0	0	0	0	0	0	0	86
	PEAK	39.092	2.653	2.653	1.917	FAN	0	0	0	0	0	0	0	0	0	0	85	85
	DAY/HR	23/15	23/15	23/15	30/21													
OCT	SUM	0.053	4.286	4.286	841.508	CMP	0	0	7	0	0	0	0	0	0	0	0	7
	PEAK	13.466	1.097	1.097	1.917	FAN	0	0	0	0	0	0	0	0	0	0	7	7
	DAY/HR	4/16	4/16	4/16	31/21													
NOV	SUM	0.008	0.653	0.653	791.669	CMP	0	0	2	0	0	0	0	0	0	0	0	2
	PEAK	4.780	0.378	0.378	1.917	FAN	0	0	0	0	0	0	0	0	0	0	2	2
	DAY/HR	4/14	4/14	4/14	30/17													
DEC	SUM	0.000	0.000	0.000	841.508	CMP	0	0	0	0	0	0	0	0	0	0	0	0
	PEAK	0.000	0.000	0.000	1.917	FAN	0	0	0	0	0	0	0	0	0	0	0	0
	DAY/HR	31/24	31/24	0/ 0	31/21													
YR	SUM	14.330	1119.160	1119.160	9893.468	CMP	4	0	536	161	39	0	0	0	0	0	0	740
	PEAK	42.047	3.511	3.511	1.917	FAN	0	0	0	0	0	0	0	0	0	0	736	736
	MON/DAY	8/10	8/29	8/29	12/31													

REPORT- SS-Q HEAT PUMP COOLING SUMMARY FOR SYSTEM-1 *WEATHER FILE- SEATTLE SEATTLE-T WA*

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)		INDOOR FAN ENERGY (MBTU)
JAN	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
FEB	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.170
MAR	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.546
APR	7.	0.394	0.113	0.000	0.000	0.000	0.000	0.000	0.000	1.102
MAY	16.	0.967	0.260	0.000	0.000	0.000	0.000	0.000	0.000	1.472
JUN	30.	1.733	0.470	0.000	0.000	0.000	0.000	0.000	0.000	1.744
JUL	58.	4.173	1.108	0.000	0.000	0.000	0.000	0.000	0.000	2.100
AUG	71.	5.456	1.455	0.000	0.000	0.000	0.000	0.000	0.000	2.198
SEP	23.	1.545	0.397	0.000	0.000	0.000	0.000	0.000	0.000	1.603
OCT	2.	0.053	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.926
NOV	0.	0.008	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.249
DEC	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049
0ANNUAL	208.	14.330	3.820	0.000	0.000	0.000	0.000	0.000	0.000	12.172

0CSPF (WITH PARASITICS) = 0.90 (KBTU/HR)
0CSPF (WITHOUT PARASITICS) = 3.75 (BTU/BTU)

REPORT- SS-Q HEAT PUMP HEATING SUMMARY FOR SYSTEM-1 *WEATHER FILE- SEATTLE SEATTLE-T WA*

	UNIT RUN TIME (HOURS)	TOTAL LOAD ON UNIT (MBTU)	ENERGY IN TO UNIT (MBTU)	AUXILIARY ENERGY (MBTU)	SUP UNIT LOAD (MBTU)	SUP UNIT ENERGY (MBTU)	WASTE HEAT GENERATED (MBTU)	WASTE HEAT USE (MBTU)	DEFROST LOAD (MBTU)	INDOOR FAN ENERGY (MBTU)
JAN	125.	-8.220	11.431	0.000	0.000	0.000	0.000	0.000	0.000	2.859
FEB	81.	-5.364	7.562	0.000	0.000	0.000	0.000	0.000	0.000	2.408
MAR	42.	-2.784	4.110	0.000	0.000	0.000	0.000	0.000	0.000	2.332
APR	15.	-1.013	1.530	0.000	0.000	0.000	0.000	0.000	0.000	1.711
MAY	5.	-0.305	0.491	0.000	0.000	0.000	0.000	0.000	0.000	1.407
JUN	0.	-0.013	0.028	0.000	0.000	0.000	0.000	0.000	0.000	1.030
JUL	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.772
AUG	0.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.680
SEP	1.	-0.052	0.099	0.000	0.000	0.000	0.000	0.000	0.000	1.171
OCT	16.	-1.069	1.676	0.000	0.000	0.000	0.000	0.000	0.000	1.946
NOV	65.	-4.287	6.183	0.000	0.000	0.000	0.000	0.000	0.000	2.453
DEC	109.	-7.185	10.088	0.000	0.000	0.000	0.000	0.000	0.000	2.823
0ANNUAL	460.	-30.293	43.197	0.000	0.000	0.000	0.000	0.000	0.000	21.593

0HSPF (WITH PARASITICS) = 0.80 (KBTU/HR)
0HSPF (WITHOUT PARASITICS) = 0.70 (BTU/BTU)

Baseline Building (90.1 Appendix G) East Town Crossing Lot 1 Tenant 2 DOE-2.1E-124 Tue Jun 3 14:28:18 2025SDL RUN 1

REPORT- SS-G ZONE LOADS SUMMARY IN SYSTEM-1 FOR 1-Tenant 2 Train WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - - - - - - C O O L I N G - - - - - - - -					- - - - - - - - H E A T I N G - - - - - - - -					- - - E L E C - - -	
MONTH	COOLING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM COOLING LOAD (KBTU/HR)	HEATING ENERGY (MBTU)	TIME OF MAX DY HR	DRY-BULB TEMP	WET-BULB TEMP	MAXIMUM HEATING LOAD (KBTU/HR)	ELEC-TRICAL ENERGY (KWH)	MAXIMUM ELEC LOAD (KW)
JAN	0.00000				0.000	0.000				0.000	1050.	3.030
FEB	0.00000				0.000	0.000				0.000	937.	3.030
MAR	0.00000				0.000	0.000				0.000	1046.	3.030
APR	0.00000				0.000	0.000				0.000	1032.	3.030
MAY	0.00000				0.000	0.000				0.000	1046.	3.030
JUN	0.00000				0.000	0.000				0.000	1012.	3.030
JUL	0.00000				0.000	0.000				0.000	1050.	3.030
AUG	0.00000				0.000	0.000				0.000	1046.	3.030
SEP	0.00000				0.000	0.000				0.000	1012.	3.030
OCT	0.00000				0.000	0.000				0.000	1050.	3.030
NOV	0.00000				0.000	0.000				0.000	968.	3.030
DEC	0.00000				0.000	0.000				0.000	1050.	3.030
TOTAL	0.000					0.000					12299.	
MAX					0.000					0.000		3.030

REPORT- SS-F ZONE DEMAND SUMMARY IN SYSTEM-1 FOR 1-Tenant 2 Train WEATHER FILE- SEATTLE SEATTLE-T WA

	- - - -D E M A N D S- - - - -		- -B A S E B O A R D S- - -		- -T E M P E R A T U R E S- -		- -L O A D S N O T M E T- -	
MONTH	HEAT EXTRACTION ENERGY (MBTU)	HEAT ADDITION ENERGY (MBTU)	BASEBOARD ENERGY (MBTU)	MAXIMUM BASEBOARD LOAD (KBTU/HR)	MAXIMUM ZONE TEMP (F)	MINIMUM ZONE TEMP (F)	HOURS UNDER HEATED	HOURS UNDER COOLED
JAN	0.00000	-6.967	0.00000	0.000	71.2	68.5	0	0
FEB	0.02596	-4.607	0.00000	0.000	74.3	68.1	0	0
MAR	0.08701	-2.570	0.00000	0.000	74.3	69.3	0	0
APR	0.74548	-0.959	0.00000	0.000	74.9	69.5	0	0
MAY	2.13155	-0.320	0.00000	0.000	75.0	69.9	0	0
JUN	3.62800	-0.052	0.00000	0.000	75.0	70.7	0	0
JUL	5.27700	-0.039	0.00000	0.000	75.3	71.9	0	0
AUG	5.48191	-0.040	0.00000	0.000	75.3	71.4	0	0
SEP	2.88773	-0.155	0.00000	0.000	75.0	70.3	0	0
OCT	0.62790	-1.164	0.00000	0.000	74.7	69.8	0	0
NOV	0.05590	-3.872	0.00000	0.000	74.5	69.1	0	0
DEC	0.00067	-6.202	0.00000	0.000	71.9	68.3	0	0

TOTAL HOURS AT TEMPERATURE LEVEL AND TIME OF DAY

HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
ABOVE 85	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
80-85	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
75-80	0	0	0	0	0	0	0	0	0	0	3	12	15	22	22	21	10	1	0	0	0	0	0	0	106
70-75	0	0	0	0	0	159	190	307	331	361	361	353	350	343	343	344	322	303	304	304	163	23	0	0	4861
65-70	0	0	0	0	0	11	114	30	34	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	194
60-65	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
BELOW 60	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

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*                                                           *
*  NOTE  1)THE TEMPERATURE COUNTS ARE MADE ONLY FOR         *
*          THE HOURS WHEN THE FANS ARE ON                   *
*                                                           *
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E Q U I P M E N T	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL	SIZE (MBTU/H)	NUMBER INSTD AVAIL

REPORT- PS-A PLANT ENERGY UTILIZATION SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

	SITE ENERGY												SOURCE
	2	3	4	5	6	7	8	9	10	11	12	13	14
MONTH	TOTAL HEAT LOAD (MBTU)	TOTAL COOLING LOAD (MBTU)	TOTAL ELECTR LOAD (MWH)	RCVRED ENERGY (MBTU)	WASTED RCVRABL ENERGY (MBTU)	FUEL INPUT COOLING (MBTU)	ELEC INPUT COOLING (MWH)	FUEL INPUT HEATING (MBTU)	ELEC INPUT HEATING (MWH)	FUEL INPUT ELECT (MBTU)	TOTAL FUEL INPUT (MBTU)	TOTAL SITE ENERGY (MBTU)	TOTAL SOURCE ENERGY (MBTU)
JAN	0.0	0.0	1.9	0.0	0.0	0.0	0.0	12.4	0.0	0.0	12.4	18.9	31.8
FEB	0.0	0.0	1.7	0.0	0.0	0.0	0.0	8.4	0.0	0.0	8.4	14.2	25.8
MAR	0.0	0.0	1.9	0.0	0.0	0.0	0.0	5.1	0.0	0.0	5.1	11.5	24.4
APR	0.0	0.0	1.9	0.0	0.0	0.0	0.0	2.5	0.0	0.0	2.5	8.9	21.8
MAY	0.0	0.0	2.0	0.0	0.0	0.0	0.1	1.5	0.0	0.0	1.5	8.2	21.6
JUN	0.0	0.0	2.0	0.0	0.0	0.0	0.1	1.0	0.0	0.0	1.0	7.7	21.1
JUL	0.0	0.0	2.2	0.0	0.0	0.0	0.3	1.0	0.0	0.0	1.0	8.5	23.7
AUG	0.0	0.0	2.3	0.0	0.0	0.0	0.4	1.0	0.0	0.0	1.0	8.9	24.7
SEP	0.0	0.0	1.9	0.0	0.0	0.0	0.1	1.0	0.0	0.0	1.0	7.7	20.9
OCT	0.0	0.0	1.9	0.0	0.0	0.0	0.0	2.6	0.0	0.0	2.6	9.1	22.1
NOV	0.0	0.0	1.8	0.0	0.0	0.0	0.0	7.1	0.0	0.0	7.1	13.1	25.1
DEC	0.0	0.0	1.9	0.0	0.0	0.0	0.0	11.1	0.0	0.0	11.1	17.5	30.4
TOTAL	0.0	0.0	23.3	0.0	0.0	0.0	1.1	54.6	0.0	0.0	54.6	134.1	293.3

REPORT- PS-B MONTHLY UTILITY AND FUEL USE SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

MONTH	BTU/UNIT:	ELECTRICITY METER-1 3413./KWH	NATURAL-GAS METER-1 100000./THERM
JAN			
	ENERGY CONSUMPTION (UNITS/MO)	1891.5	124.0
	PEAK DEMAND (UNITS/HR OR DAY)	4.9	0.6
	PEAK DAY/HR	2/10	6/ 8
FEB			
	ENERGY CONSUMPTION (UNITS/MO)	1692.3	84.3
	PEAK DEMAND (UNITS/HR OR DAY)	4.9	0.6
	PEAK DAY/HR	1/11	18/ 8
MAR			
	ENERGY CONSUMPTION (UNITS/MO)	1889.1	50.8
	PEAK DEMAND (UNITS/HR OR DAY)	4.9	0.4
	PEAK DAY/HR	1/11	24/ 7
APR			
	ENERGY CONSUMPTION (UNITS/MO)	1889.5	24.7
	PEAK DEMAND (UNITS/HR OR DAY)	6.8	0.3
	PEAK DAY/HR	26/16	18/ 8
MAY			
	ENERGY CONSUMPTION (UNITS/MO)	1965.4	14.6
	PEAK DEMAND (UNITS/HR OR DAY)	7.2	0.2
	PEAK DAY/HR	5/15	18/ 9
JUN			
	ENERGY CONSUMPTION (UNITS/MO)	1962.7	9.6
	PEAK DEMAND (UNITS/HR OR DAY)	7.4	0.1
	PEAK DAY/HR	28/16	14/ 8
JUL			
	ENERGY CONSUMPTION (UNITS/MO)	2216.0	9.7
	PEAK DEMAND (UNITS/HR OR DAY)	8.4	0.0
	PEAK DAY/HR	24/16	1/13
AUG			
	ENERGY CONSUMPTION (UNITS/MO)	2315.5	9.7
	PEAK DEMAND (UNITS/HR OR DAY)	8.5	0.0
	PEAK DAY/HR	29/17	1/13
SEP			
	ENERGY CONSUMPTION (UNITS/MO)	1941.5	10.3
	PEAK DEMAND (UNITS/HR OR DAY)	7.6	0.2
	PEAK DAY/HR	23/15	27/ 8
OCT			
	ENERGY CONSUMPTION (UNITS/MO)	1895.8	26.4
	PEAK DEMAND (UNITS/HR OR DAY)	6.0	0.3
	PEAK DAY/HR	4/16	16/ 8
NOV			
	ENERGY CONSUMPTION (UNITS/MO)	1760.5	71.1
	PEAK DEMAND (UNITS/HR OR DAY)	5.3	0.5
	PEAK DAY/HR	4/14	24/ 7
DEC			
	ENERGY CONSUMPTION (UNITS/MO)	1891.5	110.5
	PEAK DEMAND (UNITS/HR OR DAY)	4.9	0.6
	PEAK DAY/HR	1/10	26/ 8
TOTAL			
	ENERGY CONSUMPTION (UNITS/YR)	23311.5	545.6
	PEAK DEMAND (UNITS/HR OR DAY)	8.5	0.6

REPORT- PS-C EQUIPMENT PART LOAD OPERATION WEATHER FILE- SEATTLE SEATTLE-T WA

EQUIPMENT	HOURS AT PERCENT PART LOAD RATIO 0 -- 10 -- 20 -- 30 -- 40 -- 50 -- 60 -- 70 -- 80 -- 90 -- 100 - 110+	TOTAL HOURS	ANNUAL LOAD (MBTU)	FALSE LOAD (MBTU)	ELEC USED (KWH)	THERMAL USED (MBTU)
	----- ----- ----- ----- ----- ----- ----- ----- ----- ----- -----	-----	------	------	------	------

HOT LOOP CIRCULATION PUMP ELECTRICAL USE = 0. 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

ELECTRICAL LOADS	KWH SUPPLIED	PCT OF TOTAL LOAD
ELECTRICITY	23311.5	100.0
LOAD SATISFIED	23311.5	100.0
TOTAL LOAD ON PLANT	23312.6	

SUMMARY OF LOADS MET

TYPE OF LOAD	TOTAL LOAD (MBTU)	LOAD SATISFIED (MBTU)	TOTAL OVERLOAD (MBTU)	PEAK OVERLOAD (MBTU)	HOURS OVERLOADED
ELECTRICAL LOADS	79.6	79.6	0.000	0.000	0

REPORT- PS-E MONTHLY ENERGY END-USE SUMMARY WEATHER FILE- SEATTLE SEATTLE-T WA

0ELECTRICAL END-USES IN KWH

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 AREA LIGHTS	420.	375.	418.	413.	418.	405.	420.	418.	405.	420.	387.	420.	4916.
MAX KW	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
DAY/HR	2/10	1/11	1/11	1/10	1/10	2/10	1/10	1/10	2/10	1/10	1/11	1/10	
0MISC EQUIPMT	630.	562.	628.	620.	628.	608.	630.	628.	608.	630.	581.	630.	7383.
MAX KW	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
DAY/HR	2/10	1/11	1/11	1/10	1/10	2/10	1/10	1/10	2/10	1/10	1/11	1/10	
0 SPACE COOL	0.	0.	0.	33.	76.	138.	325.	426.	116.	4.	1.	0.	1119.
MAX KW	0.0	0.0	0.0	2.2	2.2	2.5	3.5	3.5	2.7	1.1	0.4	0.0	3.5
DAY/HR	0/ 0	0/ 0	0/ 0	27/16	5/15	28/16	24/16	29/17	23/15	4/16	4/14	0/ 0	
0 VENT FANS	842.	755.	843.	824.	843.	813.	842.	843.	813.	842.	792.	842.	9893.
MAX KW	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
DAY/HR	1/ 9	1/ 7	1/ 7	1/ 7	1/ 7	1/ 9	1/ 7	1/ 7	1/ 9	1/ 7	1/ 7	1/ 7	
0 TOTAL KWH	1892.	1692.	1889.	1890.	1965.	1963.	2216.	2315.	1942.	1896.	1761.	1892.	23311.

0FUEL END-USES IN MBTU

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
0 SPACE HEAT	11.4	7.6	4.1	1.5	0.5	0.0	0.0	0.0	0.1	1.7	6.2	10.1	43.2
MAX MBTU	0.059	0.060	0.041	0.034	0.024	0.007	0.000	0.000	0.015	0.028	0.049	0.057	0.060
DAY/HR	6/ 8	18/ 7	24/ 7	18/ 8	18/ 9	14/ 8	0/ 0	0/ 0	27/ 8	16/ 8	24/ 7	26/ 8	
0DOMHOT WATER	1.0	0.9	1.0	0.9	1.0	0.9	1.0	1.0	0.9	1.0	0.9	1.0	11.4
MAX MBTU	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
DAY/HR	2/13	3/13	3/13	1/13	1/13	2/13	1/13	1/13	2/13	1/13	3/13	1/13	
0 TOTAL MBTU	12.4	8.4	5.1	2.5	1.5	1.0	1.0	1.0	1.0	2.6	7.1	11.1	54.6

REPORT- PS-F ENERGY-RESOURCE PEAK BREAKDOWN BY END-USE WEATHER FILE- SEATTLE SEATTLE-T WA

0ENERGY-RESOURCE: ELECTRICITY
UNITS: KWH

0	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 PEAK DEMAND:	4.9	4.9	4.9	6.8	7.2	7.4	8.4	8.5	7.6	6.0	5.3	4.9
DAY/HR:	2/10	1/11	1/11	26/16	5/15	28/16	24/16	29/17	23/15	4/16	4/14	1/10
0BREAKDOWN												
0 AREA LIGHTS:	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
(%):	24.38	24.38	24.38	17.64	16.86	16.29	14.34	14.26	15.87	19.95	22.65	24.38
0MISC EQUIPMT:	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82
(%):	36.88	36.88	36.88	26.68	25.51	24.64	21.69	21.57	24.00	30.18	34.26	36.88
0 SPACE HEAT:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 SPACE COOL:	0.00	0.00	0.00	1.89	2.20	2.46	3.46	3.51	2.65	1.10	0.38	0.00
(%):	0.00	0.00	0.00	27.64	30.82	33.19	41.17	41.51	34.91	18.15	7.09	0.00
0 VENT FANS:	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
(%):	38.75	38.75	38.75	28.04	26.80	25.89	22.79	22.66	25.22	31.71	36.00	38.75
0DOMHOT WATER:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(CONTINUED)

0ENERGY-RESOURCE: NATURAL-GAS
UNITS: THERM

0	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0 PEAK DEMAND:	0.6	0.6	0.4	0.3	0.2	0.1	0.0	0.0	0.2	0.3	0.5	0.6
DAY/HR:	6/ 8	18/ 8	24/ 7	18/ 8	18/ 9	14/ 8	1/13	1/13	27/ 8	16/ 8	24/ 7	26/ 8
0BREAKDOWN												
0 AREA LIGHTS:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0MISC EQUIPMT:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 SPACE HEAT:	0.59	0.60	0.41	0.34	0.24	0.07	0.00	0.00	0.15	0.28	0.49	0.57
(%):	98.29	98.32	98.22	97.08	96.14	85.69	0.00	0.00	92.77	96.44	98.48	98.24
0 SPACE COOL:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0 VENT FANS:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(%):	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0DOMHOT WATER:	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01
(%):	1.71	1.68	1.78	2.92	3.86	14.31	100.00	100.00	7.23	3.56	1.52	1.76

TOTAL HOURS AT HOURLY DEMAND AND TIME OF DAY

	HOUR	1AM	2	3	4	5	6	7	8	9	10	11	12	1PM	2	3	4	5	6	7	8	9	10	11	12	TOTAL
	8	0	0	0	0	0	0	0	0	0	0	0	0	2	4	9	8	8	4	0	0	0	0	0	0	35
	7	0	0	0	0	0	0	0	0	0	0	5	10	12	13	14	19	19	17	0	0	0	0	0	0	109
	7	0	0	0	0	0	0	0	0	0	4	5	7	18	25	26	29	24	24	2	0	0	0	0	0	164
	6	0	0	0	0	0	0	0	0	0	2	6	9	12	16	15	13	18	13	13	8	0	0	0	0	125
D	5	0	0	0	0	0	0	0	0	0	3	12	13	18	17	22	16	17	12	17	6	5	0	0	0	158
E	5	0	0	0	0	0	0	0	0	1	245	278	268	249	238	227	229	229	234	13	14	6	0	0	0	2231
M K	4	0	0	0	0	0	0	0	0	1	51	0	0	54	52	52	51	50	0	216	229	5	0	0	0	761
A W	3	0	0	0	0	0	0	0	0	251	1	59	58	0	0	0	0	0	0	43	1	240	1	0	0	654
N	3	0	0	0	0	0	0	0	252	52	0	0	0	0	0	0	0	0	0	0	46	48	1	0	0	399
D	2	0	0	0	0	0	0	304	52	60	59	0	0	0	0	0	0	0	0	0	0	0	50	0	0	525
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	0	0	0	0	0	61
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	0	0	252	0	0	313
	0	365	365	365	365	365	365	61	61	0	0	0	0	0	0	0	0	0	0	0	61	61	61	365	365	3225
PERCENT TOTAL DEMAND		0.3	0.3	0.3	0.3	0.3	0.3	2.8	3.4	5.2	6.9	7.5	7.6	7.9	8.0	8.1	8.2	8.2	7.3	5.6	5.1	4.7	1.3	0.3	0.3	

PEAK ELECTRICAL LOAD BREAKDOWN

SOURCE	KW	PCT
SYSTEMS LOAD	8.459	100.0
TOTAL	8.459	

REPORT- PS-H EQUIPMENT USE STATISTICS *WEATHER FILE- SEATTLE SEATTLE-T WA*

E Q U I P M E N T	AVG OPER RATIO	MAX LOAD (MBTU)	MON DAY HR	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS	SIZE (MBTU)	OPER HRS
			-- -- --										

E Q U I P M E N T T O T A L S

EQUIPMENT	TOTAL
EQUIPMENT	TOTAL 0.0

ENERGY TYPE: UNITS: MBTU	ELECTRICITY	NATURAL-GAS
CATEGORY OF USE		
AREA LIGHTS	16.8	0.0
MISC EQUIPMT	25.2	0.0
SPACE HEAT	0.0	43.2
SPACE COOL	3.8	0.0
VENT FANS	33.8	0.0
DOMHOT WATER	0.0	11.4
TOTAL	79.6	54.6

TOTAL SITE ENERGY	134.12 MBTU	66.2 KBTU/SQFT-YR GROSS-AREA	66.2 KBTU/SQFT-YR NET-AREA
TOTAL SOURCE ENERGY	293.27 MBTU	144.7 KBTU/SQFT-YR GROSS-AREA	144.7 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.

REPORT- BEPU BUILDING ENERGY PERFORMANCE SUMMARY (UTILITY UNITS) WEATHER FILE- SEATTLE SEATTLE-T WA

ENERGY TYPE: / SITE UNITS: / CATEGORY OF USE	ELECTRICITY KWH	NATURAL-GAS THERM
AREA LIGHTS	4916.	0.
MISC EQUIPMT	7383.	0.
SPACE HEAT	0.	432.
SPACE COOL	1119.	0.
VENT FANS	9893.	0.
DOMHOT WATER	0.	114.
TOTAL	23312.	546.

TOTAL ELECTRICITY	23312. KWH	11.501 KWH	/SQFT-YR GROSS-AREA	11.501 KWH	/SQFT-YR NET-AREA
TOTAL NATURAL-GAS	546. THERM	0.269 THERM	/SQFT-YR GROSS-AREA	0.269 THERM	/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.

MMDDHH	END-USE AREA LITE KW	END-USE TASK LITE KW	END-USE EQUIP ELEC KW	END-USE SOURCE ELEC KW	END-USE HEATING ELEC KW	END-USE SUPPLEMT ELEC KW	END-USE COOLING ELEC KW	END-USE HEAT REJ ELEC KW
	----(1)	----(2)	----(3)	----(4)	----(5)	----(11)	----(6)	----(7)
0 MONTHLY SUMMARY (JAN)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	0.000	0.000
SM	419.711	0.000	630.296	0.000	0.000	0.000	0.000	0.000
AV	0.564	0.000	0.847	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (FEB)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	0.000	0.000
SM	374.590	0.000	562.492	0.000	0.000	0.000	0.000	0.000
AV	0.557	0.000	0.837	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (MAR)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	0.000	0.000
SM	418.008	0.000	627.661	0.000	0.000	0.000	0.000	0.000
AV	0.562	0.000	0.844	0.000	0.000	0.000	0.000	0.000
0 MONTHLY SUMMARY (APR)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	2.230	0.000
SM	412.616	0.000	619.654	0.000	0.000	0.000	33.014	0.000
AV	0.573	0.000	0.861	0.000	0.000	0.000	0.046	0.000
0 MONTHLY SUMMARY (MAY)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	2.204	0.000
SM	418.008	0.000	627.661	0.000	0.000	0.000	76.282	0.000
AV	0.562	0.000	0.844	0.000	0.000	0.000	0.103	0.000
0 MONTHLY SUMMARY (JUN)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	2.457	0.000
SM	404.670	0.000	607.695	0.000	0.000	0.000	137.588	0.000
AV	0.562	0.000	0.844	0.000	0.000	0.000	0.191	0.000
0 MONTHLY SUMMARY (JUL)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	3.462	0.000
SM	419.711	0.000	630.296	0.000	0.000	0.000	324.526	0.000
AV	0.564	0.000	0.847	0.000	0.000	0.000	0.436	0.000
0 MONTHLY SUMMARY (AUG)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	3.511	0.000
SM	418.008	0.000	627.661	0.000	0.000	0.000	426.392	0.000
AV	0.562	0.000	0.844	0.000	0.000	0.000	0.573	0.000
0 MONTHLY SUMMARY (SEP)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	2.653	0.000
SM	404.670	0.000	607.695	0.000	0.000	0.000	116.419	0.000
AV	0.562	0.000	0.844	0.000	0.000	0.000	0.162	0.000
0 MONTHLY SUMMARY (OCT)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	1.097	0.000
SM	419.711	0.000	630.296	0.000	0.000	0.000	4.286	0.000
AV	0.564	0.000	0.847	0.000	0.000	0.000	0.006	0.000
0 MONTHLY SUMMARY (NOV)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	0.378	0.000
SM	387.076	0.000	581.141	0.000	0.000	0.000	0.653	0.000
AV	0.538	0.000	0.807	0.000	0.000	0.000	0.001	0.000
0 MONTHLY SUMMARY (DEC)								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	0.000	0.000
SM	419.711	0.000	630.296	0.000	0.000	0.000	0.000	0.000
AV	0.564	0.000	0.847	0.000	0.000	0.000	0.000	0.000
0 YEARLY SUMMARY								
MN	0.071	0.000	0.101	0.000	0.000	0.000	0.000	0.000
MX	1.206	0.000	1.824	0.000	0.000	0.000	3.511	0.000
SM	4916.489	0.000	7382.841	0.000	0.000	0.000	1119.160	0.000
AV	0.561	0.000	0.843	0.000	0.000	0.000	0.128	0.000

MMDDHH	END-USE AUXIL ELEC KW ----(8)	END-USE VENTILAT ELEC KW ----(9)	END-USE DHW HEAT ELEC KW ----(12)	END-USE SOURCE FUEL BTU/HR ----(14)	END-USE HEATING FUEL BTU/HR ----(15)	END-USE COOLING FUEL BTU/HR ----(16)	END-USE DHW HEAT FUEL BTU/HR ----(18)	END-USE EXTERIOR LITE KW ----(20)
0 MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	58675.605	0.000	2171.175	0.000
SM	0.000	841.510	0.000	0.000	11430514.000	0.000	965568.562	0.000
AV	0.000	1.131	0.000	0.000	15363.594	0.000	1297.807	0.000
0 MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	59765.727	0.000	2171.175	0.000
SM	0.000	755.251	0.000	0.000	7561540.000	0.000	869984.500	0.000
AV	0.000	1.124	0.000	0.000	11252.292	0.000	1294.620	0.000
0 MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	41254.238	0.000	2171.175	0.000
SM	0.000	843.427	0.000	0.000	4109530.000	0.000	966254.938	0.000
AV	0.000	1.134	0.000	0.000	5523.562	0.000	1298.730	0.000
0 MONTHLY SUMMARY (APR)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	33938.609	0.000	2171.175	0.000
SM	0.000	824.258	0.000	0.000	1529789.875	0.000	938683.312	0.000
AV	0.000	1.145	0.000	0.000	2124.708	0.000	1303.727	0.000
0 MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	23548.213	0.000	2171.175	0.000
SM	0.000	843.427	0.000	0.000	491042.969	0.000	966255.125	0.000
AV	0.000	1.134	0.000	0.000	660.004	0.000	1298.730	0.000
0 MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	6835.324	0.000	2171.175	0.000
SM	0.000	812.757	0.000	0.000	27988.480	0.000	933707.438	0.000
AV	0.000	1.129	0.000	0.000	38.873	0.000	1296.816	0.000
0 MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	0.000	0.000	2171.175	0.000
SM	0.000	841.510	0.000	0.000	0.000	0.000	965568.812	0.000
AV	0.000	1.131	0.000	0.000	0.000	0.000	1297.807	0.000
0 MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	0.000	0.000	2171.175	0.000
SM	0.000	843.427	0.000	0.000	0.000	0.000	966255.125	0.000
AV	0.000	1.134	0.000	0.000	0.000	0.000	1298.730	0.000
0 MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	14656.150	0.000	2171.175	0.000
SM	0.000	812.757	0.000	0.000	99402.102	0.000	933707.438	0.000
AV	0.000	1.129	0.000	0.000	138.058	0.000	1296.816	0.000
0 MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	27598.041	0.000	2171.175	0.000
SM	0.000	841.510	0.000	0.000	1676388.000	0.000	965568.812	0.000
AV	0.000	1.131	0.000	0.000	2253.210	0.000	1297.807	0.000
0 MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	48591.141	0.000	2171.175	0.000
SM	0.000	791.671	0.000	0.000	6182969.500	0.000	924441.812	0.000
AV	0.000	1.100	0.000	0.000	8587.458	0.000	1283.947	0.000
0 MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	56951.172	0.000	2171.175	0.000
SM	0.000	841.510	0.000	0.000	10087836.000	0.000	965568.625	0.000
AV	0.000	1.131	0.000	0.000	13558.919	0.000	1297.807	0.000
0 YEARLY SUMMARY								
MN	0.000	0.000	0.000	0.000	0.000	0.000	749.493	0.000
MX	0.000	1.917	0.000	0.000	59765.727	0.000	2171.175	0.000
SM	0.000	9893.015	0.000	0.000	43197000.000	0.000	11361565.000	0.000
AV	0.000	1.129	0.000	0.000	4931.165	0.000	1296.982	0.000

MMDDHH	END-USE EXT MISC ELEC KW	END-USE EXT MISC FUEL BTU/HR	END-USE METER STEAM UNITS	END-USE METER CHIL WTR UNITS	PLANT SYS HEAT LOAD BTU/HR	PLANT SYS COOL LOAD BTU/HR	CTANK-ST ORAGE ENERGY RELEASED BTU/HR	CTANK-ST ORAGE TOTAL IN STORAGE BTU/HR
	----(21)	----(22)	----(33)	----(34)	----(1)	----(2)	----(1)	----(14)
0 MONTHLY SUMMARY (JAN)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (FEB)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (MAR)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (APR)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (MAY)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (JUN)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (JUL)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (AUG)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (SEP)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (OCT)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (NOV)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 MONTHLY SUMMARY (DEC)								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.
0 YEARLY SUMMARY								
MN	0.000	0.000	0.000	0.000	0.	0.	0.	0.
MX	0.000	0.000	0.000	0.000	0.	0.	0.	0.
SM	0.000	0.000	0.000	0.000	0.	0.	0.	0.
AV	0.000	0.000	0.000	0.000	0.	0.	0.	0.

MESSAGE LIST FROM ECONOMICS PROGRAM

0 **CAUTION**********
BLOCK-CHARGE RATE-01-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-11-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-21-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-31-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-41-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-51-ELECTRIC IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-01-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-11-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-21-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-31-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-41-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

0 **CAUTION**********
BLOCK-CHARGE RATE-51-NATURAL- IS USED IN A TIME-OF-USE
FORMAT, BUT IS NOT TOU-SEASON-LINKED TO ANY OTHER
BLOCK-CHARGES FOR SEASONAL CHANGES. THEREFORE, ANY
SEASONAL CHANGE MUST OCCUR ON THE BILLING DAY OR
ERRORS WILL RESULT. REFER TO REPORT ES-F.

Baseline Building (90.1 Appendix G) East Town Crossing Lot 1 Tenant 2 DOE-2.1E-124 Tue Jun 3 14:28:18 2025EDL RUN 1

REPORT- ES-D ENERGY COST SUMMARY

UTILITY-RATE	RESOURCE	METERS	METERED ENERGY UNITS/YR	TOTAL CHARGE ($)	VIRTUAL RATE ($/UNIT)	RATE USED ALL YEAR?
0ELEC-CO Electric	ELECTRICITY	1 2 3 4 5	23311. KWH	16474.	0.7067	YES
0GAS-CO GAS	NATURAL-GAS	1 2 3 4 5	546. THERM	6491.	11.8977	YES
0				==========		
0				22965.		

ENERGY COST/GROSS BLDG AREA: 11.33
ENERGY COST/NET BLDG AREA: 11.33

REPORT- ES-E SUMMARY OF UTILITY-RATE: ELEC-CO Electric

UTILITY-RATE: ELEC-CO Electric
RESOURCE: ELECTRICITY
METERS: 1 2 3 4 5
POWER-FACTOR: 0.80
DEMAND-WINDOW: HOUR
BILLING-DAY: 31
EXCESS-KVAR-FRAC: 0.30
3413. BTU/KWH
RATE-LIMITATION: 0.0000
EXCESS-KVAR-CHG: 0.0000

RATE-QUALIFICATIONS
MIN-ENERGY: 0.0
MAX-ENERGY: 0.0
MIN-DEMAND: 0.0
MAX-DEMAND: 0.0
QUALIFY-RATE: ALL-MONTHS
USE-MIN-QUAL: NO

BLOCK-CHARGES
RATE-01-ELECTRIC
RATE-11-ELECTRIC
RATE-21-ELECTRIC
RATE-31-ELECTRIC
RATE-41-ELECTRIC
RATE-51-ELECTRIC

DEMAND-RATCHETS

MIN-MON-RATCHETS

0

MONTH	METERED ENERGY KWH	BILLING ENERGY KWH	METERED DEMAND KW	BILLING DEMAND KW	ENERGY CHARGE ($)	DEMAND CHARGE ($)	ENERGY CST ADJ ($)	TAXES ($)	SURCHRG ($)	FIXED CHARGE ($)	MINIMUM CHARGE ($)	VIRTUAL RATE ($/UNIT)	TOTAL CHARGE ($)
0 JAN	1892	1892	4.9	4.9	1324	10	0	0	0	0	0	0.7055	1334
0 FEB	1692	1692	4.9	4.9	1185	10	0	0	0	0	0	0.7061	1195
0 MAR	1889	1889	4.9	4.9	1322	10	0	0	0	0	0	0.7055	1333
0 APR	1890	1890	6.8	6.8	1323	14	0	0	0	0	0	0.7073	1336
0 MAY	1965	1965	7.2	7.2	1376	14	0	0	0	0	0	0.7072	1390
0 JUN	1963	1963	7.4	7.4	1374	15	0	0	0	0	0	0.7078	1389
0 JUL	2216	2216	8.4	8.4	1551	16	0	0	0	0	0	0.7073	1567
0 AUG	2315	2315	8.5	8.5	1621	17	0	0	0	0	0	0.7074	1638
0 SEP	1942	1942	7.6	7.6	1359	15	0	0	0	0	0	0.7078	1374
0 OCT	1896	1896	6.0	6.0	1327	12	0	0	0	0	0	0.7064	1339
0 NOV	1761	1761	5.3	5.3	1232	11	0	0	0	0	0	0.7061	1243
0 DEC	1892	1892	4.9	4.9	1324	10	0	0	0	0	0	0.7055	1334
TOTAL	23311	23311	8.5		16318	156	0	0	0	0		0.7067	16474

REPORT- ES-F BLOCK-CHARGE AND RATCHET SUMMARY FOR: ELEC-CO Electric

UTILITY-RATE: ELEC-CO Electric
RESOURCE: ELECTRICITY
ENERGY-UNITS: KWH
DEMAND-UNITS: KW
DEMAND-WINDOW: HOUR

0

BLOCK-CHARGES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
0RATE-01-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	252	249	283	238	0	0	0	0	0	0	321	252	
BILLING ENERGY:	252	249	283	238	0	0	0	0	0	0	321	252	1596
METERED DEMAND:	4.9	4.9	4.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9	
BILLING DEMAND:	4.9	4.9	4.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9	
ENERGY CHGS($):	177	175	198	166	0	0	0	0	0	0	225	177	1118
DEMAND CHGS($):	3	3	3	4	0	0	0	0	0	0	3	3	21
TOTAL CHGS($):	180	178	202	170	0	0	0	0	0	0	228	180	1139
0RATE-11-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	1084	948	1048	1087	0	0	0	0	0	0	914	1060	
BILLING ENERGY:	1084	948	1048	1087	0	0	0	0	0	0	914	1060	6141
METERED DEMAND:	4.9	4.9	4.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5.3	4.9	
BILLING DEMAND:	4.9	4.9	4.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	5.3	4.9	
ENERGY CHGS($):	759	663	734	761	0	0	0	0	0	0	639	742	4298
DEMAND CHGS($):	3	3	3	5	0	0	0	0	0	0	4	3	22
TOTAL CHGS($):	763	667	737	766	0	0	0	0	0	0	643	745	4321
0RATE-21-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	287	262	269	335	259	254	0	0	
BILLING ENERGY:	0	0	0	0	287	262	269	335	259	254	0	0	1666
METERED DEMAND:	0.0	0.0	0.0	0.0	5.8	7.2	6.7	7.7	6.6	5.5	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	5.8	7.2	6.7	7.7	6.6	5.5	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	201	184	188	234	182	177	0	0	1167
DEMAND CHGS($):	0	0	0	0	4	5	5	5	5	4	0	0	28
TOTAL CHGS($):	0	0	0	0	205	189	193	240	186	181	0	0	1194
0RATE-31-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	1073	1083	1234	1241	1080	1062	0	0	
BILLING ENERGY:	0	0	0	0	1073	1083	1234	1241	1080	1062	0	0	6772
METERED DEMAND:	0.0	0.0	0.0	0.0	7.2	7.4	8.4	8.4	7.6	6.0	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	7.2	7.4	8.4	8.4	7.6	6.0	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	751	758	864	869	756	743	0	0	4741
DEMAND CHGS($):	0	0	0	0	5	5	6	6	5	4	0	0	32
TOTAL CHGS($):	0	0	0	0	756	763	870	875	761	747	0	0	4772
0RATE-41-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	606	617	713	739	602	581	0	0	
BILLING ENERGY:	0	0	0	0	606	617	713	739	602	581	0	0	3858
METERED DEMAND:	0.0	0.0	0.0	0.0	7.1	7.4	8.1	8.5	7.3	5.7	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	7.1	7.4	8.1	8.5	7.3	5.7	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	424	432	499	518	422	406	0	0	2701
DEMAND CHGS($):	0	0	0	0	5	5	6	6	5	4	0	0	31
TOTAL CHGS($):	0	0	0	0	429	437	505	524	427	410	0	0	2732
0RATE-51-ELECTRIC USE: TIME-OF-USE													
METERED ENERGY:	555	495	558	565	0	0	0	0	0	0	526	579	
BILLING ENERGY:	555	495	558	565	0	0	0	0	0	0	526	579	3277
METERED DEMAND:	4.9	4.9	4.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9	
BILLING DEMAND:	4.9	4.9	4.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9	
ENERGY CHGS($):	388	347	390	395	0	0	0	0	0	0	368	406	2294
DEMAND CHGS($):	3	3	3	5	0	0	0	0	0	0	3	3	22
TOTAL CHGS($):	392	350	394	400	0	0	0	0	0	0	372	409	2316
TOTAL ENERGY:	1892	1692	1889	1890	1965	1963	2216	2315	1942	1896	1761	1892	23312
TOTAL CHARGES ($):	1334	1195	1333	1336	1390	1389	1567	1638	1374	1339	1243	1334	16474

Baseline Building (90.1 Appendix G) East Town Crossing Lot 1 Tenant 2 DOE-2.1E-124 Tue Jun 3 14:28:18 2025EDL RUN 1

REPORT- ES-E SUMMARY OF UTILITY-RATE: GAS-CO GAS

UTILITY-RATE: GAS-CO GAS RESOURCE: NATURAL-GAS DEMAND-WINDOW: HOUR 100000. BTU/THERM
METERS: 1 2 3 4 5 BILLING-DAY: 31 RATE-LIMITATION: 0.0000

RATE-QUALIFICATIONS
MIN-ENERGY: 0.0
MAX-ENERGY: 0.0
MIN-DEMAND: 0.0
MAX-DEMAND: 0.0
QUALIFY-RATE: ALL-MONTHS
USE-MIN-QUAL: NO

BLOCK-CHARGES
RATE-01-NATURAL-
RATE-11-NATURAL-
RATE-21-NATURAL-
RATE-31-NATURAL-
RATE-41-NATURAL-
RATE-51-NATURAL-

DEMAND-RATCHETS

MIN-MON-RATCHETS

0

MONTH	METERED ENERGY THERM	BILLING ENERGY THERM	METERED DEMAND THERMS	BILLING DEMAND THERMS	ENERGY CHARGE ($)	DEMAND CHARGE ($)	ENERGY CST ADJ ($)	TAXES ($)	SURCHRG ($)	FIXED CHARGE ($)	MINIMUM CHARGE ($)	VIRTUAL RATE ($/UNIT)	TOTAL CHARGE ($)
0 JAN	124	124	0.6	0.6	1450	17	0	0	0	0	0	11.8353	1467
0 FEB	84	84	0.6	0.6	986	18	0	0	0	0	0	11.9120	1004
0 MAR	51	51	0.4	0.4	594	12	0	0	0	0	0	11.9332	606
0 APR	25	25	0.3	0.3	289	10	0	0	0	0	0	12.1066	299
0 MAY	15	15	0.2	0.2	171	7	0	0	0	0	0	12.1576	177
0 JUN	10	10	0.1	0.1	113	2	0	0	0	0	0	11.8721	114
0 JUL	10	10	0.0	0.0	113	1	0	0	0	0	0	11.7739	114
0 AUG	10	10	0.0	0.0	113	1	0	0	0	0	0	11.7738	114
0 SEP	10	10	0.2	0.2	121	3	0	0	0	0	0	12.0082	124
0 OCT	26	26	0.3	0.3	309	8	0	0	0	0	0	11.9992	317
0 NOV	71	71	0.5	0.5	832	14	0	0	0	0	0	11.8972	846
0 DEC	111	111	0.6	0.6	1293	17	0	0	0	0	0	11.8494	1310
TOTAL	546	546	0.6		6383	108	0	0	0	0		11.8977	6491

REPORT- ES-F BLOCK-CHARGE AND RATCHET SUMMARY FOR: GAS-CO GAS

UTILITY-RATE: GAS-CO GAS
RESOURCE: NATURAL-GAS
ENERGY-UNITS: THERM
DEMAND-UNITS: THERMS
DEMAND-WINDOW: HOUR

0

BLOCK-CHARGES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
0RATE-01-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	21	18	11	5	0	0	0	0	0	0	18	20	
BILLING ENERGY:	21	18	11	5	0	0	0	0	0	0	18	20	93
METERED DEMAND:	0.5	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	
BILLING DEMAND:	0.5	0.5	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	
ENERGY CHGS($):	240	213	126	62	0	0	0	0	0	0	215	231	1086
DEMAND CHGS($):	6	6	4	4	0	0	0	0	0	0	5	6	31
TOTAL CHGS($):	246	219	130	66	0	0	0	0	0	0	220	237	1117
0RATE-11-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	72	46	29	16	0	0	0	0	0	0	35	61	
BILLING ENERGY:	72	46	29	16	0	0	0	0	0	0	35	61	259
METERED DEMAND:	0.6	0.6	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	
BILLING DEMAND:	0.6	0.6	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	
ENERGY CHGS($):	843	535	344	185	0	0	0	0	0	0	411	714	3032
DEMAND CHGS($):	7	7	5	4	0	0	0	0	0	0	6	7	36
TOTAL CHGS($):	850	543	349	189	0	0	0	0	0	0	417	721	3068
0RATE-21-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	4	3	2	3	3	5	0	0	
BILLING ENERGY:	0	0	0	0	4	3	2	3	3	5	0	0	20
METERED DEMAND:	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.2	0.2	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.2	0.2	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	51	30	28	30	34	63	0	0	237
DEMAND CHGS($):	0	0	0	0	3	1	0	0	2	3	0	0	9
TOTAL CHGS($):	0	0	0	0	54	31	29	30	36	66	0	0	246
0RATE-31-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	8	5	5	5	5	16	0	0	
BILLING ENERGY:	0	0	0	0	8	5	5	5	5	16	0	0	43
METERED DEMAND:	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.3	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.3	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	89	54	56	54	58	188	0	0	499
DEMAND CHGS($):	0	0	0	0	3	1	0	0	1	3	0	0	8
TOTAL CHGS($):	0	0	0	0	91	55	56	55	59	192	0	0	507
0RATE-41-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	0	0	0	0	3	2	2	2	2	5	0	0	
BILLING ENERGY:	0	0	0	0	3	2	2	2	2	5	0	0	17
METERED DEMAND:	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	
BILLING DEMAND:	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	
ENERGY CHGS($):	0	0	0	0	31	28	29	29	28	58	0	0	203
DEMAND CHGS($):	0	0	0	0	1	0	0	0	0	2	0	0	4
TOTAL CHGS($):	0	0	0	0	32	28	29	29	29	60	0	0	207
0RATE-51-NATURAL- USE: TIME-OF-USE													
METERED ENERGY:	31	20	11	4	0	0	0	0	0	0	18	30	
BILLING ENERGY:	31	20	11	4	0	0	0	0	0	0	18	30	113
METERED DEMAND:	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	
BILLING DEMAND:	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	
ENERGY CHGS($):	368	238	124	42	0	0	0	0	0	0	206	348	1326
DEMAND CHGS($):	4	4	3	2	0	0	0	0	0	0	3	4	21
TOTAL CHGS($):	372	243	127	44	0	0	0	0	0	0	209	352	1346
TOTAL ENERGY:	124	84	51	25	15	10	10	10	10	26	71	111	546
TOTAL CHARGES ($):	1467	1004	606	299	177	114	114	114	124	317	846	1310	6491