Load Analysis
For
Jane Doe, Inc.
901 Anywhere
Big D, Texas 75019

Friday, November 17, 2006

Certification

I certify that all calculations and load estimates in this analysis were produced using generally accepted engineering methods. I further certify that all information in this analysis is true and accurate to the best of my knowledge. A valid and complete study has been performed which shows that 53% of the electricity is for processing tangible personal property for sale in the regular course of business."

_____ Date:_____
Top Chief Engineer
Bachelor of Science in Mechanical Engineering
The University of Texas at Austin

I certify that the hours of operation and equipment listed in this analysis are accurate and complete. I further certify that the equipment and facilities designated as exempt are being used for the manufacture of goods for sale in the regular course of business.

_____ Date:_____

Title:_____
Jane Doe, Inc.

Summary of Findings

The majority of electricity at the Jane Doe Inc. facility located Dallas, Texas is used in the manufacture of specialty sauces, dips and ice creams. The products are manufactured mixing ingredients, cooking, and packaging. A large amount of energy is consumed in the cold process area in which the product is not cooked, but heavily cooled during the mixing and manufacturing processes. Production operations in the facility take place between 5AM and 5 PM, five days per week. The manufacturing area works overtime approximately 15% of the days. The total manufacturing operating hours are 3,327 hrs/yr. The facility also consumes non-exempt energy during non-manufacturing hours during cleaning (4,161 hr/yr). The office facilities are open from 8 AM to 7 PM, five days per week (2,860 hrs/yr). Calculations indicate that over 53 percent of the electricity consumed from March 2004 to February 2006 was used in conjunction with manufacturing and processing operations. The remaining electricity was used mostly for lighting and air conditioning of office space as well as refrigerated warehouse. The calculated percentage of monthly manufacturing and processing consumption ranged from 48.9 percent to 64.4 percent over the period analyzed.

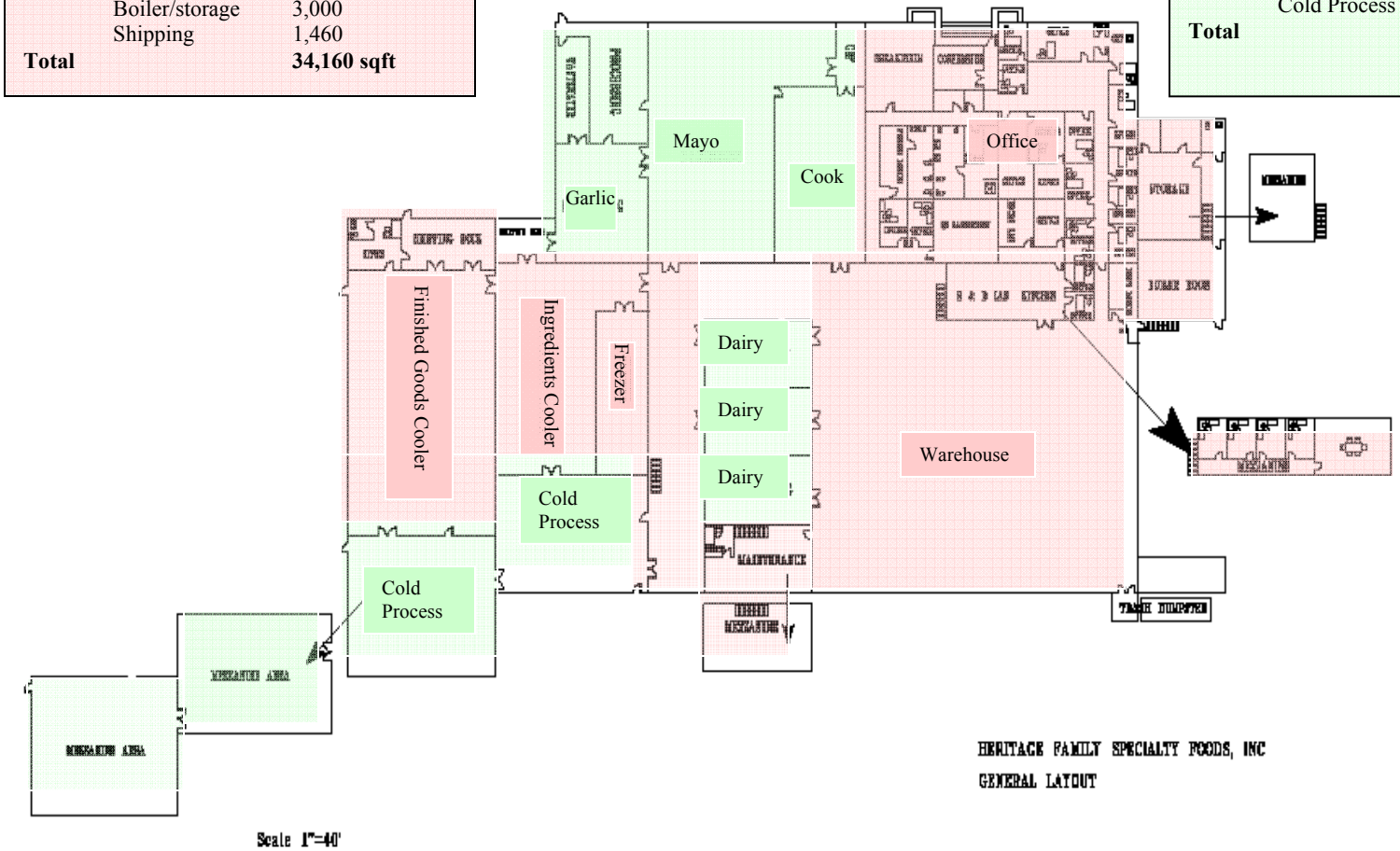
According to the provisions of the State of Texas Administrative Code Title 34, Part 1, Chapter 3, Subchapter O, Rule §3.295, the electricity use at the facility referenced above (ESID 10443720007777777) qualifies for an exemption from state sales tax.

Approximate Facility Space Allocation
Non-Exempt

Office	9,000
Warehouse	12,000
Cold Storage	6,000
Freezer	880
Maintenance	1,820
Boiler/storage	3,000
Shipping	1,460
Total	**34,160 sqft**

Approximate Facility Space Allocation
Exempt

Dairy	2,730
Mayo	4,800
Cook	2,100
Garlic	2,730
Cold Process	8,640
Total	**21,000 sqft**



March 23, 2006, Electrical Load Survey Data - Exempt Load

Description	Quantity	HP	KW/unit	Total KW	Demand Factor	Demand KW	Average Monthly kWh
Blender	1	25	18.65	18.65	0.9	16.8	4654
Mixer - 800 Gallon	1	25	18.65	18.65	0.9	16.8	4654
Blender	1	25	18.65	18.65	0.9	16.8	4654
Mill Pump	1	10	7.46	7.46	0.1	0.7	207
Sheer Pump	1	5	3.73	3.73	0.1	0.4	103
CJ1 &CJ2 Center Ag.	2	3	2.24	4.48	0.1	0.4	124
CJ1 &CJ2 Large Ag.	2	3	2.24	4.48	0.1	0.4	124
Supply Vent	1	1.5	1.12	1.12	0.1	0.1	31
Tunnel Heater	6		3.60	21.60	0.2	4.3	1198
Elgin Filler	1	2	1.49	1.49	0.2	0.3	83
PT 7 Mixer	1	25	18.65	18.65	0.5	9.3	2585
Homo	1	25	18.65	18.65	0.5	9.3	2585
PP601-PP607	6	5	3.73	22.38	0.7	15.7	4343
PT8, PT9, & PT10	3	0.5	0.37	1.12	0.7	0.8	217
Crovac Feed Pump	1	5	3.73	3.73	0.7	2.6	724
PT2, PT4, PT5, & PT6	4	3	2.24	8.95	0.7	6.3	1737
PT1 & PT3	2	1.5	1.12	2.24	0.7	1.6	434
Dixie Mixer	2	15	11.19	22.38	0.5	11.2	3102
Sheer Pump	1	15	11.19	11.19	0.2	2.2	620
Mixer Mayo	2	15	11.19	22.38	0.7	15.7	4343
Mill Pump	1	5	3.73	3.73	0.7	2.6	724
Whitecap	1	5	3.73	3.73	0.5	1.9	517
Conveyor motors	9	0.5	0.37	3.36	0.8	2.7	745
Conveyor motors	2	0.5	0.37	0.75	0.8	0.6	165
Tank Mixers	2	5	3.73	7.46	0.8	6.0	1655
Elgin Filler	1	0.75	0.56	0.56	0.7	0.4	109
Elgin Filler	2	0.5	0.37	0.75	0.7	0.5	145
Nova Pack drive Motor	1	10	7.46	7.46	0.7	5.2	1448
Mixer	4	7.5	5.60	22.38	0.7	15.7	4343
Vemag	2	7.5	5.60	11.19	1	11.2	3102
Vemag	1	5	3.73	3.73	1	3.7	1034
Auto Prod Drive Motor	1	5	3.73	3.73	1	3.7	1034
Mixer Dump Motors	2	3	2.24	4.48	1	4.5	1241
Conveyor Motor	4	0.5	0.37	1.49	1	1.5	414
Auto Prod Head Heaters	3		0.50	1.50	1	1.5	416
Conveyor Motor	2	0.5	0.37	0.75	1	0.7	207
150 Ton Process Chiller	1	103 amps	82.00	82.00	0.8	65.6	18188
Turbo Water Pump	1	20	14.92	14.92	0.8	11.9	3309
Turbo Cond. Water Pump	1	1.5	1.12	1.12	0.8	0.9	248
chill water circ. Pump	2	10	7.46	14.92	0.8	11.9	3309
Turbo Condensor Blower	1	10	7.46	7.46	0.8	6.0	1655
60 hp Air Compressor	1	58 amps	46.00	46.00	0.7	32.2	8927
Supply/ Exhaust Vent	2	10	7.46	14.92	1	14.9	4137
Supply Vent	3	2	1.49	4.48	1	4.5	1241
Exhaust vent	2	1.5	1.12	2.24	1	2.2	620
Shake Motor Garlic Fryer	1	1.5	1.12	1.12	0.7	0.8	217
Pump Motor Garlic Fryer	1	1.5	1.12	1.12	0.7	0.8	217
Garlic Fryer Screw Conveyor	1	1	0.75	0.75	0.7	0.5	145
Garlic Fryer Agitator Motor	1	0.75	0.56	0.56	0.7	0.4	109
DAF Recirculation Motors	2	3	2.24	4.48	0.3	1.3	372
DAF Submersible Motor	1	2	1.49	1.49	0.3	0.4	124
DAF Feed Pumps	2	3	2.24	4.48	0.3	1.3	372
DAF Skimmer Motor	1	0.5	0.37	0.37	0.3	0.1	31
Total						**350**	**97044**

March 23, 2006, Electrical Load Survey Data - Mixed Use Items

	% Production Use*		44%						
	% Cleaning Use		56%						
	Description	**Quantity**	**HP**	**KW/unit**	**Total KW**	**Cycle Factor**	**Demand KW**	**Monthly Exempt kWh**	**Monthly Non-Exempt kWh**
Boiler									
	Boiler Hot Water Pump	1	7.5	5.60	5.60	0.2	1.12	310	388
	Boiler Blower	1	5	3.73	3.73	0.2	0.75	207	259
	Boiler Feed water Pump	2	3	2.24	4.48	0.2	0.90	248	310
	Condensate Return Motor	2	0.5	0.37	0.75	0.4	0.30	83	103
Production Area Lighting									
cook	Lights, 2L, F96T12	12		0.23	2.76	1	2.76	765	957
CIP	Lights, 2L, F96T12	2		0.23	0.46	1	0.46	128	160
Mayo	Lights, 2L, F96T12	34		0.23	7.82	1	7.82	2168	2712
Garlic	Lights, 2L, F96T12	6		0.23	1.38	1	1.38	383	479
Tunnel	Lights, 2L, F96T12	7		0.23	1.61	1	1.61	446	558
Wastewater	Lights, 2L, F96T12	2		0.23	0.46	1	0.46	128	160
Cold Process	Lights, 2L, F96T12	48		0.23	11.04	1	11.04	3061	3828
Dairy	Lights, 2L, F96T12	12		0.23	2.76	1	2.76	765	957
	Totals						**31**	**8691**	**10870**

* Based on 3,327 hours of production use, and 4,161 hours of cleaning use.

March 23, 2006, Electrical Load Survey Data – Non Exempt Load

Location	Description	Quantity	HP	KW/unit	Total KW	Use Factor	Demand KW	Monthly kWh
Shipping	Lights, 2L, F96T12	12		0.23	2.76	1	2.76	1722
	Bug lamp	1		0.43	0.43	1	0.43	314
Walkway	Lights, MH	4		0.46	1.84	1	1.84	1148
Cooler	Lights, MH	8		0.46	3.68	1	3.68	2296
Freezer	Lights, MH	5		0.46	2.30	1	2.30	1435
Cold Warehouse	Lights, MH	20		0.46	9.20	1	9.20	5741
Maintenance	Bug lamp	1		0.43	0.43	1	0.43	314
	Lights, 4L, F40T12	2		0.16	0.32	1	0.32	234
	Lights, 2L, F96T12	14		0.23	3.22	1	3.22	2009
R&D Lab	Lights, 4L, F40T12	25		0.16	4.00	1	4.00	953
Office Bathroom	Lights, 4L, F40T12	4		0.16	0.64	1	0.64	153
	lights incandescent	8		0.04	0.32	1	0.32	76
Office	Lights, 4L, F40T12	98		0.16	15.68	1	15.68	3737
Breakroom	Lights, 4L, F40T12	10		0.16	1.60	1	1.60	381
Exit Signs	Lights incandescent	7		0.03	0.21	1	0.21	153
Warehouse	Lights, MH	24		0.46	11.04	1	11.04	6889
Men's Locker	Lights, 4L, F40T12	5		0.16	0.80	1	0.80	499
Shipping Office	Lights, 4L, F40T12	3		0.16	0.48	1	0.48	350
Ship. Off. B.R.	lights incandescent	4		0.06	0.24	1	0.24	57
Outside	Cleaning Shift Air	1	40	31	31.00	0.8	24.80	8599
Warehouse	Supply Vent	1	1	0.75	0.75	1	0.75	466
	Door Openers	2	0.5	0.37	0.75	0.1	0.07	47
Outside	Box Compactor	1	10	7.46	7.46	0.1	0.75	466
	Trash Compactor	1	10	7.46	7.46	0.1	0.75	466
	CIP Pump (cleaning)	2	7.5	5.60	11.19	0.8	8.95	3104
Breakroom	Coffee	1		0.20	0.20	0.2	0.04	25
	stove	1		0.17	0.17	0.05	0.01	5
	microwave	4		0.97	3.88	0.05	0.19	121
	Oven	1		0.17	0.17	0.05	0.01	5
	refridgerator	2		0.29	0.58	0.1	0.06	36
	Candy Machine	1		0.03	0.03	1	0.03	19
	Beverage Machine	2		0.20	0.40	0.2	0.08	50
	Water Cooler	1		0.17	0.17	0.1	0.02	11
Office	Space heater	2		0.9	1.80	0.50	0.90	215
	Adding Machine	5		0.02	0.10	0.80	0.08	19
	PC's	16		0.15	2.40	0.90	2.16	515
	Laptop	6		0.1	0.60	0.70	0.42	100
	Copier	1		0.55	0.55	0.20	0.11	26
	Fax	2		0.2	0.40	0.20	0.08	19
	microwave	3		0.9	2.70	0.02	0.05	13
	Fan	2		0.04	0.08	1.00	0.08	19
	Small refridgerator	3		0.2	0.60	0.20	0.12	29
R&D Lab	Autoclaves	2		1.2	2.40	0.80	1.92	458
	Incubator	2		0.97	1.94	0.80	1.55	370
	PC's	3		0.15	0.45	0.90	0.41	97
	Laptop	1		0.1	0.10	0.70	0.07	17
	Industrial Refridgerator	2		1.5	3.00	0.20	0.60	143
	Dry Ice Freezer	1		1.5	1.50	0.20	0.30	72
	Industrial Refridgerator	1		2.6	2.60	0.20	0.52	124
	Ice Cream Machine	1		4	4.00	0.02	0.08	19
	Mixer	1		1.37	1.37	0.10	0.14	33
	Mixer	1		5.6	5.60	0.10	0.56	133
	Dishwasher	1		1.4	1.40	0.50	0.70	167
Maintenance	Water Cooler	1		0.17	0.17	1.00	0.17	41
	Band Saw	1	0.75	0.56	0.56	0.20	0.11	27
	Welder	1		12.40	12.40	0.05	0.62	148
	Drill Press	1	0.5	0.37	0.37	0.20	0.07	18
	Grinder	1	0.5	0.37	0.37	0.20	0.07	18
	Total						**108**	**44718**

March 23, 2006, Electrical Load Survey Data – HVAC Detail

Non-Exempt							
Office		Model Number		Compressor Horsepower	Total Hp	Heat KW	
	Carrier	50TM-016-511YA	1	7.5	7.5	7.5	
	York	D4CE090A25A	1	7.5	7.5	13	
	GE	BTC1200300A0	1	10	10	26	
R&D							
	ICP	GPFMO36H080E	1	7.5	7.5		
Sales Office							
	ICP	PAB060NIHD	1	7.5	7.5		
Freezer							
	Russell	VLD30L44-G	1	30	30		
	Heat Craft	CDH0800M63	1	8	8		
Cold Storage							
	Russell	VCD18M22-G	1	22	22		
Cold Warehouse							
	Heat Craft	CDH0800M63	1	10	10		
	Russell	VLD23H22-G	2	10	20		
	Trane	RAVA-2504MA	1	10	10		
HVAC Evap Motors (Cold WH)			19	0.75	14.25		
HVAC Evap Motors (Cold WH)			3	0.5	1.5		
Blower Motor Roof			1	5	5		
HVAC Evap Motors			4	0.5	2		
HVAC Condenser			5	0.5	2.5		
Air Handler Blower Motors			7	1	7		
HVAC Condenser Motor (Freezer)			2	0.75	1.5		
	Total				**173.75**	**46.5**	
38% Exempt							
Dairy Room							
	Heat Craft	CDT0800H2D	1	8	8		
Cold Pack/mix							
	Russell	VLD23H22-G	2	10	20		
	Russell	VLD23H22-G	2	10	20		
	HVAC Cond. Motors (prod)		27	1.5	40.5		
	HVAC Cond. Motors (prod)		5	1	5		
	HVAC Cond. Motors (prod)		5	0.75	3.75		
	Blower Motor Rooftop		2	1.5	3		
	Total				**100.25**		

Historical Electrical Demand and Consumption Data

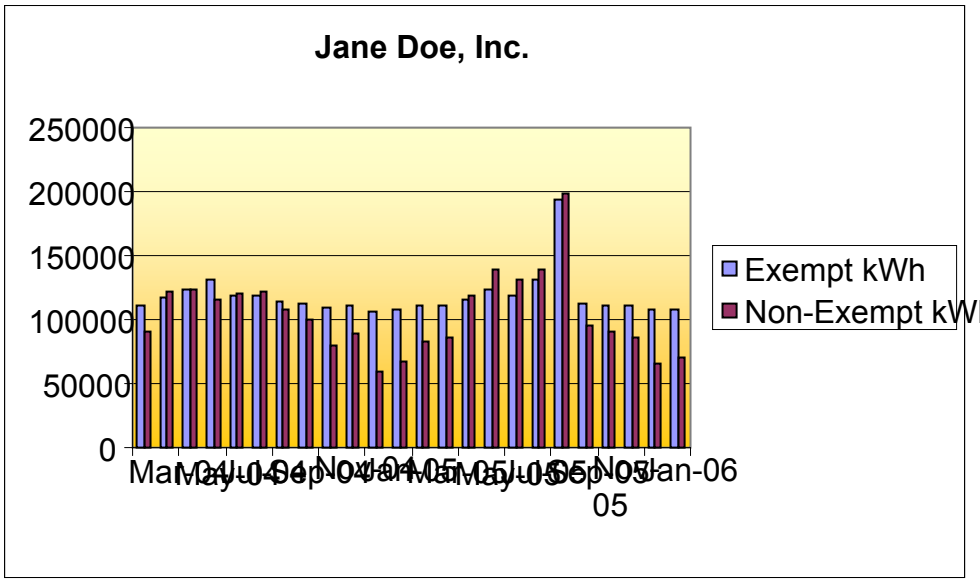
Actual KW	Actual KWH	Month Start	Month End	Days
494	202050	3/9/2004	4/8/2004	30
521	238207	4/8/2004	5/11/2004	33
550	246825	5/11/2004	6/10/2004	30
566	247117	6/10/2004	7/12/2004	32
556	239647	7/12/2004	8/10/2004	29
575	239940	8/10/2004	9/9/2004	30
509	221242	9/9/2004	10/8/2004	29
519	213524	10/8/2004	11/8/2004	31
487	188775	11/8/2004	12/8/2004	30
479	201037	12/8/2004	1/10/2005	33
457	164812	1/10/2005	2/7/2005	28
437	175365	2/7/2005	3/9/2005	30
477	193275	3/9/2005	4/8/2005	30
554	196650	4/8/2005	5/9/2005	31
562	234270	5/9/2005	6/9/2005	31
609	262867	6/9/2005	7/11/2005	32
604	249592	7/11/2005	8/9/2005	29
617	270877	8/9/2005	9/9/2005	31
665	393007	9/9/2005	10/10/2005	31
574	206617	10/10/2005	11/8/2005	29
530	201848	11/8/2005	12/8/2005	30
453	196043	12/8/2005	1/10/2006	33
529	172845	1/10/2006	2/7/2006	28
550	179190	2/7/2006	3/8/2006	29

Calculated Exempt and Non-Exempt Electricity Consumption[†]

Month	Total kWh	Non-Exempt kWh	Non-Exempt %	Exempt kWh	Exempt %
March-04	202050	90648	44.9%	111402	55.1%
April-04	238207	121743	51.1%	116464	48.9%
May-04	246825	123154	49.9%	123671	50.1%
June-04	247117	115426	46.7%	131691	53.3%
July-04	239647	120945	50.5%	118702	49.5%
August-04	239940	121233	50.5%	118707	49.5%
September-04	221242	107153	48.4%	114089	51.6%
October-04	213524	100515	47.1%	113009	52.9%
November-04	188775	79231	42.0%	109544	58.0%
December-04	201037	89776	44.7%	111261	55.3%
January-05	164812	58623	35.6%	106189	64.4%
February-05	175365	67699	38.6%	107666	61.4%
March-05	193275	83101	43.0%	110174	57.0%
April-05	196650	86004	43.7%	110646	56.3%
May-05	234270	118357	50.5%	115913	49.5%
June-05	262867	139450	53.0%	123417	47.0%
July-05	249592	131534	52.7%	118058	47.3%
August-05	270877	139839	51.6%	131038	48.4%
September-05	393007	198478	52.0%	194529	48.0%
October-05	206617	94575	45.8%	112042	54.2%
November-05	201848	90474	44.8%	111374	55.2%
December-05	196043	85482	43.6%	110561	56.4%
January-06	172845	65531	37.9%	107314	62.1%
February-06	179190	70988	39.6%	108202	60.4%
Totals	**5335622**	**2499958**	**46.9%**	**2835664**	**53.1%**

[†] Calculated consumption based on deducting non-exempt kWh from the total kWh; non-exempt consumption is based on consistent weekly lighting and additional equipment as previously mentioned with seasonally adjusted (Degree Day Method) HVAC kWh consumption.

Graphical Summary of Electrical Exempt and Non-Exempt Load



Note: Variations in monthly kWh are due to variation in seasonal HVAC loads. Production levels in this facility remain extraordinarily steady.