LOAD CALCULATION

Dakota Plains Grain Elevator

CONTINUOUS LOADS

30	Count	180 VA per Convenience Recept	180	WATT	5,400
1	exclude AC	Electric Heat 100%	2,700	WATT	2,700
1	exclude HEAT	Air Conditioning 100%	14,400	WATT	14,400
1		office In floor heat	5,498	WATT	5,498
1		lighting	9,600	WATT	9,600
1		lighting	9,072	WATT	9,072
1		bin fans	659,198	WATT	659,198
1		Hydralic heater	1,000	WATT	1,000
				WATT	0
				WATT	0
				WATT	0
	CONTINUOUS LOADS				**706,868**

ADDING IT UP

	WATTS	**Continuous Loads**	**100%**		**706,868**
	WATTS	**Non Continuous Loads**	**65%**		**995,821**
	40% HEAT	**if more than 4 units**			**0**
					0
					0
				TOTAL	**1,702,689**
			3PH	**VOLTS**	**480**
				AMPS	**2,050**

ADD	**10% SPARE**	**205**
ADD	**15%UNBALANCED**	**308**
TOTAL CALCULATED		**2563** AMPS
CONNECTED DEMAND		**2,238.9** **kw**

NON CONTINUOUS LOADS

QTY	**EQUIPMENT**	LOAD		TOTALS
10	Dedicated Recepts	1,200	WATT	12,000
			WATT	0
			WATT	0
1	MOTOR LOADS	1,503,532	WATT	1,503,532
1	MISC ITEMS	16,500	WATT	16,500
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
			WATT	0
	TOTAL NON CONTINUOS LOADS			**1,532,032**