

1 Q. For the budget item identified below, answer the following questions or
2 provide the information as appropriate:

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<i>Budget item</i>	<i>Amount</i>	<i>Description</i>
B – 31	\$149, 000	Replace Transformers – Burlington Substation

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8 Further to PUB-31.1, indicate the size of the existing transformer bank, the
9 proposed size of the padmount transformer, and the transformer load under
10 normal peak load conditions (excluding cold load pick up) for each of the past
11 5 years. What were the factors that increased the peak load, necessitating
12 the transformer bank replacement?

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15 A. The existing transformer bank has a capacity of 1,500 kVA, and is comprised
16 of 3 – 500 kVA single-phase units. The replacement transformer will be a 3-
17 phase 2,500 kVA unit. Peak values for the past 5 years are as follows:

Transformer Peak Loading									
Year	A - Phase			B - Phase			C - Phase		
	Amps	kVA	% Rating	Amps	kVA	% Rating	Amps	kVA	% Rating
1995	82	590	118	92	662	132	98	706	141
1996	68	490	98	66	475	95	82	590	118
1997	84	605	121	86	619	124	96	691	138
1998	78	562	112	78	562	112	92	662	132
1999	No Data			No Data			No Data		
2000	70	504	101	97	698	140	87	626	125

1 The replacement is required because the transformers have been, and
2 continue to be, overloaded.