1	Q.	Reference: Graph 2-2, Customer Growth Capital				
2 3		Grap	oh 2-2 at page 2-9 breaks down customer growth capital into two components:			
4		the p	ortion driven by customer growth and the portion driven by load growth.			
5						
6		<b>(a)</b>	Does this break down reflect the types of capital in that "Customer Growth"			
7			capital relates to capital investment to connect new customers, excluding			
8			upstream cost to increase capacity; whereas "Load Growth" capital relates			
9			to both load growth due to growth in the number of customers and increases			
10			in average load per customer. If not, please explain how NP categorizes			
11 12			Customer Growth Capital. If this is the case, please break down Load			
12			Growth capital to show the impact on the addition of customers (assuming average use is unchanged) and the impact on capital spending due to			
13			increases in average use.			
15			mereases in average use.			
16		<b>(b</b> )	Please provide a table showing average use per customer by customer class			
17		$(\mathbf{z})$	for the period shown in Graph 2-2 (2005 to 2014). Also, please break out the			
18			average use for existing customers versus the average use of new customers			
19			in each year that is used in developing the energy and demand forecast.			
20						
21	A.	(a)	"Customer Growth" capital relates to the capital expenditure associated with			
22			providing service to new customers. This would include portions of distribution			
23			capital projects such as Extensions, Meters, Services, Street Lighting and			
24			Transformers.			
25						
26			"Load Growth" capital relates to the capital expenditure associated with the			
27			amount of electricity delivered by Newfoundland Power to its customers. These			
28			expenditures are required to increase system capacity, particularly power			
29			transformation capacity. This would include portions of distribution, transmission			
30			and substation capital projects. The substation capital project Additions Due to			
31 32			Load Growth and distribution capital project Feeder Additions for Growth are			
32 33			examples of Load Growth capital projects.			
33 34			The application of these descriptions does reflect "Customer Growth" capital			
35			relating to capital investment to connect new customers, excluding upstream cost			
36			to increase capacity; whereas "Load Growth" capital relates to both load growth			
37			due to growth in the number of customers and increases in average load per			
38			customer.			
39						
40			Newfoundland Power has not studied the relative impact on Load Growth capital			
41			expenditure of the additional customers and changes in average use by existing			
42			customers.			
43						

(b)

1 2 3

э 4 Table 1

shown in Graph 2-2 (2005 to 2009).

Table 1 provides average use per customer by customer class for the period

## Average kWh Usage per Customer by Customer Class 2005 to 2009F

	2005	2006	2007	2008	2009F
Rate 1.1	15,309	15,117	15,241	15,456	15,598
Rate 2.1	8,118	7,835	7,654	7,468	7,470
Rate 2.2	75,919	75,537	75,164	74,931	74,266
Rate 2.3	844,596	837,880	841,804	833,116	825,643
Rate 2.4	6,970,455	6,622,460	6,690,258	6,844,116	6,338,225
Total General Service	94,058	93,085	94,292	94,641	94,308
Rate 4.1	3,756	3,747	3,743	3,700	3,671
Total Company	22,167	21,897	22,069	22,262	22,355

5 6 7

7 8

9 10 Table 2 provides average use per customer by customer class for the period shown in Graph 2-2 (2010F to 2014F).

## Table 2Average kWh Usage per Customer by Customer Class2010F to 2014F

15,569	15 470			
	15,478	15,694	15,783	15,873
7,369	7,331	7,425	7,390	7,315
13,776	73,460	73,591	73,451	73,163
32,285	836,771	841,465	842,041	846,073
37,179	6,564,326	6,832,554	7,017,705	7,140,789
93,915	94,726	96,800	98,152	99,063
3,591	3,511	3,468	3,468	3,468
2,313	22,275	22,621	22,792	22,920
	7,369 73,776 32,285 87,179 93,915	7,3697,33173,77673,46032,285836,77187,1796,564,32693,91594,7263,5913,511	7,3697,3317,42573,77673,46073,59132,285836,771841,46587,1796,564,3266,832,55493,91594,72696,8003,5913,5113,468	7,3697,3317,4257,39073,77673,46073,59173,45132,285836,771841,465842,04187,1796,564,3266,832,5547,017,70593,91594,72696,80098,1523,5913,5113,4683,468

11 12

1	Newfoundland Power forecasts total domestic average use using an end-
2	use/econometric model that includes variables such as market share for electric
3	space heating, personal disposable income and the marginal price of electricity.
4	Given the interaction between these variables it is not possible to forecast average
5	use for existing customers versus average use for new customers from the
6	Company's current forecasting model.