

1 **Q. [Account 364.1] – As it relates to Account 364.1 - Transformers, please provide the**
 2 **following:**

- 3
 4 **a. the different types and sizes and corresponding dollar amount for**
 5 **transformers;**
 6 **b. the dollar level of retirement by year, by type and size for the past 10 years;**
 7 **c. the quantity of copper in transformers by type and size; and**
 8 **d. the number and dollar level of transformers contaminated with hazardous**
 9 **material still in service and retired by year for the past 10 years.**

10
 11 **A. a.** Table 1 provides the types, sizes and corresponding dollar amounts for
 12 transformers.
 13
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Table 1
Transformers By Type

<u>Type</u>	<u>Quantity</u>	<u>Original Cost (\$)</u>
Up to 5 kVa	441	68,475
10 kVa	7,874	8,070,538
15 kVa	1,974	666,280
20 kVa	14	4,930
25 kVa	17,162	23,413,242
37.5 kVa	2,773	1,405,980
50 kVa	16,064	30,371,881
75 kVa	7,696	17,959,479
100 kVa	2,600	8,103,522
150 kVa	13	64,412
167 kVa	162	673,225
200 kVa	8	14,993
225 kVa	19	48,837
250 kVa	36	144,389
300 kVa	242	2,509,890
333 kVa	3	30,087
500 kVa	297	4,026,024
750 kVa	154	3,096,831
1000 kVa	55	1,637,690
1500 kVa	46	1,946,742
2000 kVa	10	680,294
2500 kVa	2	89,533
Mini-pad 37.5 kVa	59	122,621
Mini-pad 50 kVa	56	248,459
Mini-pad 75 kVa	103	495,641

Table 1 (Cont'd)
Transformers By Type

<u>Type</u>	<u>Quantity</u>	<u>Original Cost (\$)</u>
Mini-pad 100 kVa	200	633,706
Mini-pad 150 kVa	1	15,434
Mini-pad 167 kVa	3	28,280
Mini-pad 225 kVa	6	29,689
Transformer mountings & pads	594	463,367
		<u>107,064,471</u>

- b. Table 2 provides the dollar level of transformer retirements by year, type and size for the period 2001 through 2010.

Table 2
Transformer Retirements

<u>Type/Size</u>	<u>Year</u>	<u>Retirement Cost (\$)</u>
Up to 5 kVa	2001	5,185.04
	2002	3,238.04
	2003	4,705.17
	2004	1,795.90
	2005	6,877.00
	2006	246,343.96
	2007	2,934.91
	2008	2,395.18
	2009	2,438.79
	2010	656.92
7.5 kVa	2005	3752.92
	2006	27,815.94
10 kVa	2001	107,895.36
	2002	95,482.67
	2003	96,966.99
	2004	74,222.36
	2005	133,570.34
	2006	719,644.81
	2007	140,321.44
	2008	129,699.19
	2009	126,954.53
	2010	57,766.25

Table 2 (Cont'd)
Transformer Retirements

<u>Type/Size</u>	<u>Year</u>	<u>Retirement Cost (\$)</u>
15 kVa	2001	27,507.41
	2002	23,133.22
	2003	31,722.61
	2004	18,155.77
	2005	30,850.68
	2006	155,045.25
	2007	39,620.57
	2008	20,330.68
	2009	24,590.65
	2010	11,956.71
20 kVa	2005	704.30
	2006	352.15
25 kVa	2001	254,544.58
	2002	264,315.49
	2003	266,698.62
	2004	209,720.99
	2005	366,159.63
	2006	1,031,747.34
	2007	956,157.62
	2008	259,760.04
	2009	296,332.63
	2010	183,614.72
30 kVa	2006	3,361.92
37.5 kVa	2001	47,064.67
	2002	32,182.16
	2003	40,110.08
	2004	28,699.34
	2005	46,988.17
	2006	73,361.62
	2007	76,713.83
	2008	35,089.80
	2009	57,667.50
	2010	19,593.44
40 kVa	2006	2,889.22
45 kVa	2006	1,622.63
50 kVa	2001	238,303.95
	2002	278,043.46
	2003	259,302.48

Table 2 (Cont'd)
Transformer Retirements

<u>Type/Size</u>	<u>Year</u>	<u>Retirement Cost (\$)</u>
75 kVa	2004	205,314.15
	2005	320,859.60
	2006	1,204,432.02
	2007	728,010.38
	2008	252,632.37
	2009	284,058.42
	2010	145,467.15
	2001	127,923.53
	2002	149,043.45
	2003	124,843.49
100 kVa	2004	104,821.74
	2005	195,959.57
	2006	351,381.43
	2007	517,394.48
	2008	145,351.97
	2009	129,103.30
	2010	104,347.49
	2001	76,166.97
	2002	65,909.98
	2003	35,379.63
150 kVa	2004	49,110.32
	2005	106,063.45
	2006	383,713.93
	2007	22,983.15
	2008	36,414.08
	2009	80,800.04
	2010	24,495.48
	2001	13,905.00
	2004	4,314.96
	2005	18,483.65
167 kVa	2006	40,650.63
	2008	1,223.75
	2001	10,358.68
	2002	37,882.78
	2003	33,650.22
	2004	9,946.58
	2005	71,038.65
	2006	117,346.29

Table 2 (Cont'd)
Transformer Retirements

<u>Type/Size</u>	<u>Year</u>	<u>Retirement Cost (\$)</u>
200 kVa	2007	23,185.04
	2009	13,282.29
	2001	1,874.17
	2005	9,370.85
	2006	1,874.17
225 kVa	2005	14,085.08
	2006	16,838.44
	2007	2,432.67
	2009	4,948.24
250 kVa	2002	11,060.00
	2003	2,034.17
	2006	24,772.50
	2007	2,395.00
	2009	6,141.50
300 kVa	2010	2,034.17
	2003	21,167.70
	2005	37,751.96
	2006	137,967.99
	2007	19,572.77
500 kVa	2008	4,661.70
	2009	38,167.03
	2003	18,436.51
	2005	15,398.80
	2006	153,531.29
600 kVa	2007	59,525.23
	2008	12,371.73
	2009	68,215.36
	2010	68,766.45
	2006	50,858.83
750 kVa	2003	16,688.98
	2005	17,126.44
	2006	183,419.75
	2007	10,103.62
	2008	40,143.05
1000 kVa	2009	8,436.33
	2010	16,535.30
	2005	7,808.60
	2006	149,308.67

Table 2 (Cont'd)
Transformer Retirements

<u>Type/Size</u>	<u>Year</u>	<u>Retirement Cost (\$)</u>
1250 kVa	2006	10,640.00
1500 kVa	2003	24,585.20
	2006	230,234.00
	2007	30,513.18
2000 kVa	2006	54,476.00
Mini-pad 25 kVa	2006	1,858.38
Mini-pad 37.5 kVa	2006	2,222.07
	2009	1,018.21
Mini-pad 50 kVa	2006	51,724.38
	2008	6,070.64
	2009	18,211.92
Mini-pad 75 kVa	2005	8,598.97
	2006	264,527.03
	2007	1,025.92
	2008	6,084.59
	2009	39,520.60
Mini-pad 100 kVa	2002	1,620.53
	2005	4,519.99
	2006	54,761.45
	2007	4,861.62
	2008	6,694.28
	2009	13,684.32
Mini-pad 150 kVa	2005	3,809.90
	2006	15,239.60
Mini-pad 225 kVa	2006	9,896.48

- c. Newfoundland Power does not have the requested information regarding the quantity of copper contained in transformers.
- d. Newfoundland Power does not have the requested information regarding the number and dollar level of transformers with hazardous material still in service or retired by year.