

1 Q. Reference: 2013 Amended GRA Filing: Reconciliation to Original GRA Filing, page  
2 1.4R, lines 5-8

3 Please provide a table that shows the original plan (2010) for transformer and  
4 breaker maintenance for each year, the actual annual progress to date and the  
5 revised schedule. The table should include the number of transformers, number of  
6 breakers and the annual cost.

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8 A. Table 1 below provides the actual maintenance (Corrective Maintenance (CM) and  
9 Preventative Maintenance (PM)) costs and execution plan associated with  
10 transformers.  
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Table 1: Transformers Six-Year Cycle - 2010 to 2015 Summary of Maintenance and Costs			
Cycle	Preventative Maintenance Planned	Preventative Maintenance Completed	Cost <sup>3,4,5</sup>
Year 1 (2010)	18	15	\$303,644
Year 2 (2011)	17	11	\$257,837
Year 3 (2012)	17	14	\$342,224
Year 4 (2013)	17	10	\$145,600
Year 5 (2014) <sup>1</sup>	18	37	\$846,622
Year 6 (2015) <sup>2</sup>	18	0	\$411,870
<b>Total</b>	<b>105</b>	<b>87</b>	

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14 **Note 1:** 2014 work included 18 planned PMs; eight overdue PMs as per the June 2,  
15 2014 report; two PMs for 2015 as per the June 2, 2014 report and nine opportunity  
16 / other PMs for a total of 37 PMs completed.

**Note 2:** 2015 work includes 18 planned PMs which is comprised of 13 planned PMs plus five overdue PMs as per the June 2, 2014 report for 2015. At the end of 2015, all planned activities of the six-year cycle will be complete.

**Note 3:** Costs noted above include costs for all maintenance including PM and CM.

**Note 4:** 2015 Transformer estimate is based on average maintenance cost per transformer in 2014.

**Note 5:** Costs excludes labour costs associated with travel to and from site, vehicle rental costs and incremental administrative resources in 2014 and 2015.

Table 2 below provides the actual maintenance (CM and PM) costs and execution plan associated with air blast circuit breakers.

Table 2: Air Blast Circuit Breakers Six-Year Cycle - 2010 to 2015 Island Interconnected Summary of Maintenance and Costs				
Cycle	Preventative Maintenance Planned	Preventative Maintenance Completed	PMs Not Completed in Six- Year Cycle <sup>6</sup>	Cost <sup>3,4,5</sup>
Year 1 (2010)	10	4	---	\$45,256
Year 2 (2011)	11	3	---	\$62,322
Year 3 (2012)	11	7	1	\$118,125
Year 4 (2013)	11	9	1	\$61,946
Year 5 (2014) <sup>1</sup>	11	31	2	\$725,807
Year 6 (2015) <sup>2</sup>	15	0	3	\$351,197
<b>Total</b>	<b>69</b>	<b>54</b>	<b>7</b>	

**Note 1:** 2014 work included 11 planned PMs; nine overdue PMs as per the June 2, 2014 report; four PMs for 2015 as per the June 2, 2014 report and seven opportunity / other PMs for a total of 31 PMs completed.

**Note 2:** 2015 work includes 15 planned PMs which is comprised of four six-year cycle PMs, nine four-year cycle PMs plus two overdue PMs as per the June 2, 2014 report for 2015. At the end of 2015, all planned activities of the six-year cycle and the first year of the four-year cycle will be complete.

**Note 3:** Costs noted above include costs for all maintenance including PM and CM.

**Note 4:** 2015 Air Blast Circuit Breaker estimate is based on average maintenance cost per transformer in 2014.

**Note 5:** Costs excludes labour costs associated with travel to and from site, vehicle rental costs and incremental administrative resources in 2014 and 2015.

**Note 6:** Due to breaker removed / replaced or planned for removal / replacement before the end of 2015.

The work planned for 2015 is estimated to be \$763,000 for air blast circuit breaker and transformer maintenance. These costs exclude labour costs associated with travel to and from site, vehicle rental costs and incremental administrative resources.