

**AMPCO Interrogatory #023**

**Ref:** Exhibit N1, Tab 1, Schedule 1, Impact Statement

**Issue Number:** 5.1

**Issue:** Is the proposed regulated hydroelectric production forecast appropriate?

**Interrogatory**

**Preamble:** The evidence indicates the updated (increased) previously regulated hydroelectric production forecast for 2014 and 2015 is a result of higher flows forecast for the Niagara and St. Lawrence Rivers.

- a) Page 16 -Please explain the cause of the higher flows in 2014 and 2015 and provide the annual TWh impact associated with each cause.
- b) Please provide the monthly production in 2013 related to the NTP.
- c) Attachment 4, Page 4 – OPG's 2014-2016 Business Plan – Under Key Planning Assumptions, OPG provides a hydroelectric production forecast broken down by previously and newly regulated hydroelectric for forecast 2013 and business plan 2014 to 2016. AMPCO notes the amounts shown on Page 4 of the 2014-2016 Business Plan for 2014 and 2015 for previously regulated hydroelectric differ from the amounts updated in the Impact Statement (Pages 16-17). Similarly, the amounts for newly regulated hydro shown on Page 4 of the 2014-2016 Business Plan for 2014 and 2015 differ from the amounts shown in Table 1 at Exhibit E1, Tab 1, Schedule 1. Please explain these variances.
- d) Attachment 4, Page 4 – OPG's 2014-2016 Business Plan – Under Key Planning Assumptions, OPG provides a hydroelectric production forecast that includes 2016. Please explain the 2016 forecast compared to 2015 plan.

**Response**

- a) Flow forecasts are based on recent conditions and trends. The flow forecast prepared in 2012 for the 2014 and 2015 energy production plans was undertaken during a period of low water levels and lower lake outflows, whereas the flow forecast undertaken in 2013 followed a wet summer that resulted in lake levels recovering to average and subsequently higher lake outflows. The 2013 flow forecasts for 2014 and 2015 were 5 to 6 per cent higher for the Niagara River than the 2012 forecast and 3 to 4 per cent higher for the St. Lawrence River. The production forecast for Niagara increased by almost 0.9 TWh for 2014 and 0.6 TWh for 2015. The production forecast for Saunders increased by about 0.2 TWh for each of the two years.
- b) Estimated monthly production attributable to NTP:

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NTP Incremental Production (GWh)	
Mar-13	58.0
Apr-13	38.2
May-13	33.4
Jun-13	37.0
Jul-13	61.2
Aug-13	61.9
Sep-13	34.9
Oct-13	37.5
Nov-13	27.8
Dec-13	74.8

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3 c) For both the previously regulated and newly regulated hydroelectric facilities, plan  
4 production totals presented in the Application represent total forecast production with no  
5 reduction for forecast surplus baseload generation ("SBG"). The production totals presented  
6 in the referenced Business Plan table (Ex. N1-1-1, Attachment 4, page 4) include forecast  
7 SBG reductions.

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9 d) As shown in the table below, the forecast production plans for 2015 and 2016, exclusive of  
10 forecast SBG reductions [see item (c) above], were very similar.

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**2014-2016 Business Plan Production Forecast (TWh)**

<b>Prescribed Facility</b>	<b>2015 Plan</b>	<b>(c)-(a) Change</b>	<b>2016 Plan</b>
	(a)	(b)	(c)
<u>Previously Regulated Hydroelectric:</u>			
Niagara Plant Group	14.1	0.1	14.2
Saunders GS	6.9	0.0	6.9
<b>Sub total</b>	<b>21.0</b>	<b>0.1</b>	<b>21.1</b>
<u>Newly Regulated Hydroelectric:</u>			
Ottawa-St. Lawrence Plant Group	5.7	0.0	5.7
Central Hydro Plant Group	0.5	0.0	0.5
Northeast Plant Group	2.4	0.1	2.5
Northwest Plant Group	3.8	(0.1)	3.8
<b>Sub total</b>	<b>12.4</b>	<b>0.0</b>	<b>12.4</b>
<b>Regulated Hydroelectric Total</b>	<b>33.5</b>	<b>0.1</b>	<b>33.5</b>

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Note: Numbers may not add due to rounding.