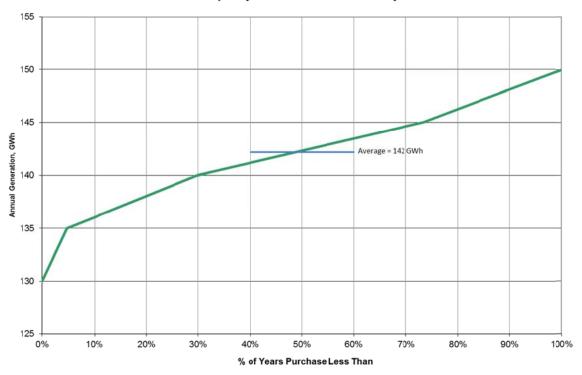
Q. **Introduction Evidence** 1 Reference: 2 Please provide a probabilistic frequency distribution of potential variability of 2013 Test Year purchases from Nalcor based on intervals of 25 GWh. (Introduction 3 Evidence, page 1.2, line 8) 4 5 6 7 A. The Probabilistic frequency distributions of the generation at Star Lake and at the 8 three Exploits Generation facilities - Buchans, Grand Falls and Bishop's Falls - are 9 provided in Charts 1 and 2 on the following pages. A third curve showing the distribution of the total generation is included on Chart 2. These figures 10 11 demonstrate the variation in the expected purchase cited in the application and are based on the range of results obtained with the 64 hydrological sequences 12 13 simulated in the Vista modeling. The expected value (average of the 64 sequences) 14 of the purchases is 776 GWh per year (the Test Year value). 15 16 Summary statistics are presented in Table 1 below the plots. It should be noted 17 that each value in the series is unique, so the data points were rounded to the 18 nearest 5 GWh to allow for calculation of a mode.

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Chart 1 (Revised) Frequency Distributions – Star Lake Only

Purchases from Nalcor, GWh/year Frequency Distribution - Star Lake Only



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Chart 2 (Revised)

Purchases from Nalcor, GWh/year **Frequency Distribution** 875 850 825 800 775 750 § 725 Generation, 200 650 Average = 634 GWh 625 600 575 Total Exploits System (including Star Lake) Grand Falls + Bishop's Falls + Buchans 550 525 500 100%

Frequency Distributions Exploits River Plants and Exploits and Star Lake Combined

% of Years Purchase Less Than

Table 1 - Statistics

	Star Lake only	Buchans + GF + BF	Total Exploits
% Data points greater than	50%	41%	41%
average	JU/6	41/0	41/0
% Data points lower than	50%	59%	59%
average	30%	39/0	39/0
Mean	142	634	776
Median	142	623	767
Mode	145	610	830
	(when data rounded	(when data rounded	(when data rounded
	to 5 GWh)	to 5 GWh)	to 5 GWh)