Q. For each of the years 2000 – 2020, please provide the actual or forecast hours of operation for Holyrood units No 1, No. 2, No. 3 (generator mode) and No. 3 (synchronous condenser mode).

A. A table indicating the actual or forecast hours of operation for Holyrood units No 1, No. 2, No. 3 (generator mode) and No. 3 (synchronous condenser mode – actual only) is found on the following page.

The forecast of unit generation operation for the 2014-2017 time period assumes that Unit 1 is the first unit to be placed into service and the last one to be taken off, Unit 2 is the second on and second off and that Unit 3 is the last on and first to be taken off. The requirements will change depending on such factors as the status of the other Holyrood units, overall production requirements from the Holyrood plant, Avalon transmission support requirements and the status of other major equipment on the system.

During the period of standby operation, following the interconnection via the Labrador Island Link (LIL), it is assumed that there is a requirement for the equivalent one Holyrood unit for one week per year - two days full production and five days at 100 MW.

Hydro has not developed longer term hourly forecast requirements for synchronous condenser operation. Typically however, under the current isolated Island scenario, Unit 3 has been converted from generator to synchronous condenser mode in the spring when no longer required for generation. It is then converted back to generate mode in the fall – prior to the winter season. To illustrate this, the

equivalent of five months of synchronous condenser operation annually has been indicated in the table. Again, this is subject to change, similarly based on the factors that influence generation requirements as indicated above.

During the period of standby operation, Unit 3 will operate primarily in synchronous condenser mode, with the option to return to full generating mode. In the table it is assumed that it will be shut down for four weeks per year for annual maintenance.

Table 1.
Holyrood Unit Operating Data
2000-2020

	Unit 1	Unit 2	Unit 3	
	Operating	Operating	Operating	Sync Condense
Year	Hours	Hours	Hours	Hours
2000	5,228	5,412	2,323	2,835
2001	6,561	6,884	5,239	-
2002	5,774	6,066	5,716	846
2003	4,984	6,083	5,273	1,707
2004	5,420	4,393	5,198	1,025
2005	4,116	4,603	5,172	1,024
2006	4,077	2,490	4,695	3,189
2007	5,629	5,107	4,321	569
2008	3,486	4,994	3,082	4,403
2009	4,520	4,922	2,946	4,117
2010	4,420	3,954	2,811	3,181
2011	4,952	4,470	2,443	4,889
2012	4,555	3,906	2,221	4,361
2013	2,080	5,280	3,760	-
2014	6,550	6,530	4,120	3,650
2015	6,550	6,530	3,620	3,650
2016	6,580	6,550	3,640	3,650
2017	6,580	6,550	3,640	3,650
2018	72	72	24	8,064
2019	72	72	24	8,064
2020	72	72	24	8,064

Notes:
Operating data for 2013 includes actuals to July 31 and forecast to year end