

1 Q. **Reference: Hydro's Recovery of the 2015 and 2016 Balances Application,**
2 **response to Request for Information NP-NLH-020.**

3

4 Please update the response to NP-NLH-020 of the 2015 and 2016 Balances
5 Application to include the derating history of Holyrood Units 1, 2 and 3 for 2017.

6

7

8 A. Tables 1 to 3 provide the changes in unit ratings for Holyrood Units 1, 2, and 3 for
9 2017.

Table 1 2017 Derating History Holyrood Unit 1

Unit	Start	Derate (MW)	Uprate (MW)	Revised Rating (MW)	Nature of the Issue
1	20-Jan-17	-25		145	Air Heater post seal leakage causing air flow issues
1	27-Jan-17		15	160	Air flow adjustment completed
1	6-Feb-17	-10		150	Air Heater post seal leakage causing air flow issues
1	14-Feb-17	-5		145	Air heater fouling furnace pressure alarm
1	27-Feb-17		5	150	Economizer fouling suspected after air heater wash completed
1	27-Feb-17	-80		70	Economizer fouling suspected
1	27-Feb-17		80	150	Economizer adjustments completed
1	8-Mar-17	-10		140	Economizer fouling causing high furnace pressure
1	21-Mar-17	-6		134	Air heater fouling furnace pressure alarm
1	1-May-17	-14		120	Economizer fouling causing high furnace pressure
1	1-May-17		5	125	Economizer adjustments completed
1	4-May-17	-5		120	Economizer fouling causing high furnace pressure
1	21-May-17	-40		80	Economizer fouling causing high furnace pressure
1	23-May-17		30	110	Gas side economizer fouling causing high furnace pressure. Adjustment completed
1	8-Jun-17	-16		94	Economizer fouling causing high furnace pressure
1	20-Jun-17		26	120	Air heater wash completed
1	18-Sep-17		50	170	Annual Maintenance completed
1	18-Sep-17	-120		50	Boiler Feedwater pump issue
1	20-Sep-17		20	70	Boiler Feedwater pump adjustment
1	20-Sep-17		100	170	Pump repairs completed
1	20-Oct-17	-16		154	West FD fan winding temperature in alarm
1	24-Oct-17	-9		145	West FD fan winding temperature in alarm
1	25-Oct-17	-10		135	West FD fan winding temperature in alarm
1	16-Nov-17		10	145	Air flow adjustments completed
1	4-Dec-17		5	150	Air heater wash completed
1	28-Dec-17	-15		135	Economizer fouling causing high furnace pressure
1	29-Dec-17		15	150	Air heater wash completed

Table 2 2017 Derating History Holyrood Unit 2

Unit	Start	Derate (MW)	Uprate (MW)	Revised Rating (MW)	Nature of the Issue
2	20-Jan-17	-20		150	Furnace pressure in alarm due to Air Heater fouling
2	15-Feb-17	-8		142	Furnace pressure in alarm due to Air Heater fouling
2	20-Feb-17		28	170	Air heater wash completed
2	22-Feb-17	-20		150	Furnace Pressure high alarm believe to be caused by Economizer gas side fouling
2	6-Mar-17	-10		140	Economizer gas side fouling causing high furnace pressure
2	21-Mar-07	-6		134	Economizer fouling furnace pressure in alarm
2	28-Mar-17	-1		133	Economizer fouling furnace pressure in alarm
2	31-Mar-17		2	135	Economizer adjustment completed
2	6-Apr-17	-5		130	Economizer fouling furnace pressure in alarm
2	23-Apr-17		23	153	Ignitor air flexible hose repaired
2	25-Apr-17		12	165	Economizer adjustment completed
2	3-Jun-17	-115		50	Low fuel oil pressure
2	11-Jun-17		115	165	Maintenance completed to replace hydraulic fluid
2	17-Jun-17	-25		140	Economizer fouling
2	29-Jun-17	-70		70	Boiler Feed Pump West motor Inboard bearing failure
2	2-Jul-17		95	165	Economizer adjustment completed
2	30-Oct-17	-95		70	Combustion Control system issues
2	4-Nov-17		30	100	Exciter Commissioning Limits
2	4-Nov-17		50	150	Exciter Commissioning Limits
2	20-Nov-17		10	160	Economizer adjustment completed
2	19-Dec-17	-90		70	VFD West fan issue
2	19-Dec-17		90	160	Economizer adjustment completed

Table 3 2017 Derating History Holyrood Unit 3

Unit	Start	Derate (MW)	Uprate (MW)	Revised Rating (MW)	Nature of the Issue
3	12-Mar-17	-15		135	West fuel oil pump issue
3	21-Mar-17		15	150	Repaired fuel pump
3	22-Mar-17	-20		130	Air heater fouling air flow issues
3	28-Mar-17		6	136	Air heater adjustments completed
3	31-Mar-17	-1		135	Air heater adjustments completed
3	14-Jul-17		15	150	Air heater wash completed
3	26-Oct-17	-8		142	Air flow issues and High Condenser backpressure
3	27-Oct-17		8	150	Condenser backwash completed
3	14-Nov-17	-20		130	Air heater fouling air flow issues
3	20-Nov-17		20	150	Air heater wash completed
3	11-Dec-17	-20		130	West Fuel oil pump issues
3	20-Dec-17	-5		125	Air heater fouling air flow issues
3	24-Dec-17	-10		115	Air heater fouling air flow issues
3	27-Dec-17	-10		105	Air heater fouling air flow issues
3	31-Dec-17		25	130	Air heater fouling air flow issues