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1 Q. Holyrood fuel efficiency and station service

- 2 (a) Please complete the following table demonstrating the Gross Plant Production,
- 3 Station Service Load, and Net Plant Production for the Holyrood Thermal
- 4 Generating Station.
- 5

<u>Holyrood</u>	<u>(A) Gross</u> <u>Plant</u> <u>Production</u> [GWh]	<u>(B) Station</u> <u>Service</u> [GWh]	(C) Net Plant Production [GWh]	(D) Station Service Factor <u>%</u> (D) = (B)/(A) x <u>100[%]</u>
2014				
2015				
2016				
2017F				
2018F				
2019F				

6

7 b) Please quantify the effect on 2018 and 2019 revenue requirements of station

service factors of 3%, 4%, and 5% (ie. As a percentage of gross plant production).

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- 10
- A. a) Table 1 provides the Gross Plant Production, Station Service Load, and Net Plant
  Production for the Holyrood Thermal Generating Station.

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# Table 1 Gross Plant Production, Station Service Load, and Net Plant Production for theHolyrood Thermal Generating Station

Holyrood	(A) Gross Plant Production [GWh]	(B) Station Service [GWh]	(C) Net Plant Production [GWh]	(D) Station Service Factor % (D) = (B) / (A) x 100[%]
2014	1400.3	85.0	1315.3	6.07%
2015	1543.2	84.7	1458.5	5.49%
2016	1707.1	86.2	1620.9	5.05%
2017F	1622.0	100.5	1521.5	6.20%
2018T	1657.1	102.7	1554.4	6.20%
2019T	1663.5	103.2	1560.3	6.20%

1 b) Tables 2 and 3 provide the effect on Hydro's 2018 and 2019 Test Year revenue

2 requirements of station service factors of 3%, 4%, and 5% (i.e., as a percentage of

3 gross plant production.)

## Table 2 Station Service Factors of 3%, 4%, and 5% Impact on 2018 Test Year Revenue Requirement

	2018 Test	5% Station	4% Station	3% Station
	Year	Service	Service	Service
Holyrood Gross Production (GWh)	1657.1	1636.2	1619.1	1602.5
Holyrood Net Production (GWh)	1554.4	1554.4	1554.4	1554.4
Station Service Factor (%)	6.20	5.00	4.00	3.00
Net Fuel Conversion Rate (kWh/bbl)	616	623	630	636
Net Fuel Consumption ('000 bbls)	2522.1	2493.4	2468.7	2444.3
No. 6 Fuel Consumption Price (\$/bbl)	86.41	86.41	86.41	86.41
No. 6 Fuel Consumption Cost (\$000)	217,927.00	215,456.30	213,323.07	211,210.96
Impact (\$000)		(2,470.70)	(4,603.93)	(6,716.04)

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# Table 3 Station Service Factors of 3%, 4%, and 5% Impact on2019 Test Year Revenue Requirement

	2019 Test	5% Station	4% Station	3% Station
	Year	Service	Service	Service
Holyrood Gross Production (GWh)	1663.5	1642.5	1625.3	1608.6
Holyrood Net Production (GWh)	1560.3	1560.3	1560.3	1560.3
Station Service Factor (%)	6.20	5.00	4.00	3.00
Net Fuel Conversion Rate (kWh/bbl)	616	623	630	636
Net Fuel Consumption ('000 bbls)	2533.6	2503.0	2478.2	2453.7
No. 6 Fuel Consumption Price (\$/bbl)	87.11	87.11	87.11	87.11
No. 6 Fuel Consumption Cost (\$000)	220,709.00	218,033.92	215,875.17	213,737.79
Impact (\$000)	-	(2,675.08)	(4,833.83)	(6,971.21)