

- 1 **Q. (Reference Application)**
 2 **a) Please provide a table showing the monthly generation and spill from each**
 3 **of NP's hydro plants from July 2022 to July 2024.**
 4 **b) Is the monthly output from NP's hydro plants at NP's discretion or is it**
 5 **based on requests from NL Hydro? Please explain the decision-making**
 6 **process for generation at these plants.**
 7 **c) Please confirm that NP's Topsail hydro plant is not currently operating and**
 8 **indicate when it is expected to return to full service.**
 9 **d) For NP's Topsail plant including penstock and related facilities, please**
 10 **provide a table showing annual generation, spill, capital expenditures,**
 11 **operating cost, and contribution to earnings for 2010 to 2023 with**
 12 **forecast values for 2024, 2025 and 2026.**
 13 **e) Are any of NP's other hydro plants not currently operating or will have**
 14 **generating interruptions for any other time during the rest of 2024?**
 15 **Please provide details and indicate any adverse impacts on 2024 earnings.**
- 17 **A.** a) Attachment A provides monthly generation from each of Newfoundland Power's
 18 hydro plants from July 2022 to July 2024. Newfoundland Power is unable to provide
 19 spill as the Company does not actively track spill from its watersheds.
 20
 21 b) Newfoundland Power normally operates its hydroelectric plants in a water
 22 management mode where the plant operates to maximize efficient production of
 23 electricity given the water conditions at the intake. Newfoundland Power is
 24 frequently called upon by Newfoundland and Labrador Hydro to increase production
 25 from both Avalon and all-Island hydroelectric plants.¹ Responsibility for dispatching
 26 the Company's generation assets ultimately lies with Newfoundland Power's System
 27 Control Centre, although decisions are made in consultation with plant operating
 28 guidelines, operating procedures, and the relevant supervisors and managers.
 29
 30 c) Newfoundland Power's Topsail hydro plant is currently unavailable as the company is
 31 responding to an in-service failure in the plant. The plant is expected to return to
 32 service prior to the end of 2024.²

¹ See Newfoundland Power's *2025 Capital Budget Application*, report 4.1 *Mount Carmel Pond Dam Refurbishment*, page 2, footnote 6 for the number of generation requests from 2019-2023.

² There are no capital expenditures directly associated with the Topsail hydro plant proposed in the Company's *2025 Capital Budget Application*.

- 1 d) See Table 1 for information requested.

Table 1 Topsail Plant Information ³			
Year	Generation (GWh)	Capital Expenditures (\$000s)	Operating Costs (\$000s) ⁴
2010	14.608	0	56.6
2011	12.974	20.3	53.0
2012	9.174	476.3	121.2
2013	11.085	278.4	76.7
2014	8.824	169.8	240.3
2015	6.970	140.1	115.3
2016	11.221	9.7	90.5
2017	10.062	143.6	69.6
2018	12.602	0.0	82.9
2019	6.996	250.2	85.0
2020	0.000	318.8	23.1
2021 ⁵	0.000	7,840.8	26.8
2022	7.067	286.9	46.6
2023	4.516	100.3	38.1
2024F	0.000 ⁶	203.1 ⁷	39.4
2025F	14.210 ⁸	0.0	40.7
2026F	14.210	0.0	42.2

³ Newfoundland Power is unable to provide spill as the Company does not actively track spill from its watersheds. Newfoundland Power is unable to provide the contribution of each facility to earnings as the Company does not track the contribution of individual assets to earnings.

⁴ Does not include generation taxes associated for water power rental, or the proration of general hydro power operating costs associated with Topsail plant.

⁵ Capital expenditures were part of an approved multi-year project that started in 2020. See Board Order No. P.U. 5 (2020).

⁶ 2024 generation is incomplete.

⁷ 2024 capital expenditures are the estimated year-end total.

⁸ 14.210 GWh represents the predicted annual generation from Hatch's *2020 Hydro Normal Production Review*, April 2021.

- 1 e) Newfoundland Power's Mobile hydroelectric plant is currently unavailable due to
2 planned refurbishment work as approved in the Company's *2023 Capital Budget*
3 *Application* and *2024 Capital Budget Application*.
- 4 Newfoundland Power's Victoria hydroelectric plant is unavailable due to a penstock
5 failure as described in *Newfoundland Power's Normal Hydro Production for 2024* filed
6 with the board on February 2, 2024.
- 7
8 Newfoundland Power does not foresee any adverse impact on earnings as
9 adjustments were made to the normal hydro production to account for the lost
10 production of both plants experiencing extended unavailability in 2024.

ATTACHMENT A:

Hydro Generation – July 2022 to July 2024

Monthly Generation (GWh)

Plant	2022						2023												2024						
	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
Petty Harbour	0.352	0.449	0.973	0.916	0.906	2.158	1.880	1.592	1.315	2.190	1.623	1.451	0.411	0.589	0.871	1.062	1.591	1.093	0.575	1.386	2.786	2.903	1.691	1.660	1.139
Pierre's Brook	0.589	0.721	1.446	2.453	1.527	2.764	2.440	2.438	2.481	2.490	2.787	2.229	1.615	0.605	1.326	1.439	2.319	2.289	1.595	1.869	2.564	2.734	2.442	2.505	2.356
Tors Cove	1.241	1.676	1.576	1.989	1.915	3.119	3.164	2.350	1.788	2.638	2.179	0.216	0.468	1.067	2.153	2.003	2.429	2.182	1.718	1.981	3.467	3.260	2.187	2.998	1.810
Rocky Pond	0.766	0.989	0.837	1.104	0.893	1.649	6.405	1.306	0.608	1.364	1.158	0.587	0.579	0.658	1.160	1.123	1.348	1.219	1.018	1.113	1.932	1.764	1.239	1.687	1.190
Mobile	0.027	0.250	2.331	1.295	0.774	3.997	6.405	5.273	4.691	4.115	3.365	4.186	3.208	0.892	0.377	0.417	2.352	2.570	5.366	5.471	6.869	1.086	0.000	0.000	0.000
Cape Broyle	2.627	1.330	1.933	2.827	1.593	2.823	4.071	3.898	3.385	4.142	3.152	0.887	2.629	1.443	0.505	1.785	2.328	1.700	2.650	3.042	4.117	3.853	3.244	3.334	4.071
Horse Chops	3.942	1.409	2.392	3.877	1.325	2.915	4.647	4.929	4.961	5.404	3.880	0.674	3.946	1.773	0.473	2.354	2.942	2.098	3.875	3.965	4.932	5.416	4.614	4.138	5.211
Topsail	0.615	0.214	0.000	0.183	0.693	0.000	0.000	0.202	1.266	1.314	1.419	0.315	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Seal Cove	0.457	0.531	0.442	0.804	0.964	1.433	1.262	0.917	0.851	1.381	1.064	1.103	0.559	0.220	0.266	0.583	0.744	0.579	0.368	0.703	1.728	1.591	0.909	1.068	0.740
Heart's Content	0.111	0.131	0.234	0.212	0.524	1.410	1.401	0.483	0.445	1.125	1.465	0.518	0.294	0.226	0.764	0.419	0.692	0.572	0.351	0.577	1.734	1.528	0.490	1.138	0.647
Victoria	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
New Chelsea	0.306	0.383	0.298	2.057	1.612	1.009	2.138	1.884	2.094	2.554	2.288	1.865	1.611	1.416	0.775	0.070	0.064	0.363	1.640	1.180	2.296	1.887	1.487	2.147	1.879
Pitmans Pond	0.000	0.000	0.064	0.486	0.329	0.210	0.449	0.417	0.433	0.442	0.424	0.377	0.317	0.265	0.104	0.000	0.000	0.071	0.345	0.198	0.427	0.382	0.304	0.432	0.373
Morris	0.000	0.000	0.314	0.223	0.000	0.346	0.519	0.579	0.691	0.521	0.503	0.674	0.066	0.117	0.000	0.000	0.140	0.241	0.597	0.565	0.694	0.279	0.000	0.000	0.062
West Brook	0.023	0.173	0.065	0.102	0.147	0.190	0.112	0.210	0.161	0.178	0.101	0.129	0.047	0.056	0.216	0.152	0.201	0.243	0.147	0.168	0.202	0.272	0.192	0.217	0.066
Fall Pond	0.056	0.072	0.016	0.048	0.115	0.129	0.110	0.095	0.048	0.086	0.016	0.072	0.025	0.071	0.111	0.083	0.078	0.065	0.039	0.046	0.176	0.133	0.061	0.114	0.047
Lawn	0.065	0.066	0.055	0.127	0.253	0.337	0.291	0.219	0.183	0.218	0.046	0.134	0.063	0.055	0.189	0.152	0.193	0.136	0.079	0.107	0.347	0.272	0.131	0.208	0.093
Rattling Brook	6.288	4.471	1.563	1.807	0.521	4.429	8.271	9.341	4.764	1.521	6.461	7.466	5.941	5.322	2.695	2.510	2.983	3.876	7.865	4.428	8.088	9.504	6.285	7.517	6.174
Sandy Brook	0.554	0.146	0.086	1.262	1.058	4.067	3.993	2.063	2.111	3.205	1.138	0.000	0.000	0.000	0.000	0.000	0.000	2.388	2.394	1.529	3.441	4.356	3.768	3.442	1.522
Lockston	0.313	0.146	0.537	0.212	0.420	1.049	1.230	1.132	0.697	0.656	0.846	0.819	0.481	0.266	0.356	0.307	0.767	0.666	0.573	0.379	0.822	1.026	1.041	0.693	0.750
Port Union	0.002	0.005	0.011	0.026	0.127	0.175	0.063	0.075	0.018	0.181	0.224	0.132	0.022	0.001	0.000	0.888	0.074	0.058	0.000	0.046	0.201	0.204	0.096	0.088	0.031
Lookout Brook	2.553	2.550	2.247	1.666	0.643	2.345	3.424	2.685	1.918	1.781	2.823	2.634	2.240	1.419	1.583	0.888	1.668	3.357	3.304	2.719	3.199	3.190	2.952	2.556	1.483
Rose Blache	1.992	1.234	1.730	1.738	2.921	2.873	2.802	1.032	0.267	1.863	2.512	1.909	2.836	2.506	2.723	2.604	2.686	2.587	0.219	0.610	2.681	3.857	2.456	1.328	0.529
Total	22.958	16.946	19.152	25.414	19.259	39.426	55.080	43.155	35.174	39.368	39.477	28.376	27.356	18.967	16.646	18.839	25.600	28.354	34.718	32.083	52.703	49.496	35.586	37.270	30.171