

1 **Q. (Reference CA-NP-001, lines 4-6) The Board did not approve the addition of a second**
2 **2.5 MW portable diesel generator at a cost of \$1,700,000.00. Please provide the**
3 **consequences of this decision by the Board not to approve the addition of this second**
4 **portable diesel generator. How many similar portable diesel generators does**
5 **Newfoundland Power now have? Please provide details as to their actual hours of**
6 **usage, the reasons for the usage and the location of the usage for the period 2015-**
7 **current.**

8
9 A. Newfoundland Power's 2003 Capital Budget Application proposed: (i) the purchase of a
10 new 2.5 MW portable diesel generator ("MD3"); and (ii) the refurbishment of an existing
11 7.5 MW mobile gas turbine ("MGT").¹ The Board approved these proposals in Order
12 No. P.U. 36 (2002-2003).

13
14 The Company's 2004 Capital Budget Application proposed the addition of a second
15 2.5 MW portable diesel generator at a cost of \$1,700,000. The addition of a second unit
16 was proposed for standby purposes to provide emergency backup and to support planned
17 maintenance activities.²

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19 In Order No. P.U. 35 (2003), the Board stated:

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21 *"In respect of the recommended acquisition of two 2.5 MW units the*
22 *report concluded that "the purchase of these units may be completed over*
23 *two or more years" (emphasis added). This does not appear to convey any*
24 *sense of immediate urgency. On the basis of the information before it the*
25 *Board is not prepared to approve the purchase at this time of a second 2.5*
26 *MW portable diesel generator. NP may at a later date make application*
27 *presenting additional information to support the purchase of further*
28 *portable diesel generation."*³

29
30 Following the Board's order, Newfoundland Power chose to monitor the deployment of
31 the new MD3 and the refurbished MGT. This included monitoring increased flexibility
32 in deploying the MGT, as refurbishment permitted the unit to operate at lower loads. The
33 Company subsequently decided not to file a supplemental application for an additional
34 portable diesel generator.

35
36 The consequences of the Board's decision not to approve the second unit have generally
37 not been significant, but have occurred primarily during major electrical system events.
38 For example, during the March 2010 ice storm in eastern Newfoundland, extended
39 customer outages occurred on the Avalon Peninsula, Bonavista Peninsula and Bonavista
40 North areas. On March 6th, Newfoundland Power stationed MD3 in the community of
41 Old Perlican. On March 7th, the MGT was energized at Catalina Substation. In both

¹ See Newfoundland Power's 2003 Capital Budget Application, Schedule B, pages 11 and 15.

² See Newfoundland Power's 2002 Capital Budget Application, Schedule B, page 14.

³ See Order No. P.U. 35 (2003), page 12, lines 6 to 13.

1 situations the mobile generators were insufficient to carry all customer load and feeder
2 rotation was necessary until the respective transmission lines were rebuilt.⁴

3
4 With respect to current mobile diesel generation, Newfoundland Power only has the MD3
5 approved in Order No. P.U. 36 (2002-2003). Attachment A provides details as to its
6 actual hours of usage, the reasons for the usage and the location of the usage since 2015.

⁴ For additional details, see the report *Transmission and Distribution Line Rebuilds March 2010 Ice Storm*, April 30, 2010 included with the *Application for Approval of a Capital Expenditure Allowance Supplemental to Newfoundland Power's 2010 Capital Budget*.

**Mobile Diesel MD3
Operating Data**

Requests for Information

Date of Initial Dispatch	Date of Final Recall	Operating Hours	Max Customers Affected ¹	Customer Minutes Avoided	Location	Reason for Dispatch	Remarks
2015-03-04	2015-03-04	2.92	N/A	N/A	Grand Bay	NLH Request	All available generation
2015-10-05	2015-10-05	2.58	5,284	819,372	Grand Bay	Planned Work - NLH	Maintenance on TL214
2015-10-15	2015-10-15	8.34	5,315	2,660,069	Grand Bay	Planned Work - NLH	NLH Switching at DOY
2015-12-13	2015-12-13	2.65	3,574	568,266	Grand Bay	Planned Work - NLH	Maintenance on TL215
2016-08-15	2016-08-26	39.42	1,661	3,928,929	Gilliams	Planned work - NP	At GIL for work on 358L
2017-03-13	2017-03-14	47.35	601	1,707,441	Trepassey	Planned Work - NP	Maintenance on 95L
2017-06-13	2017-06-23	58.31	745	2,606,457	Rattling Brook	Planned Work - NP	Maintenance on RBK-01
2017-08-21	2017-08-24	18.08	1,288	1,397,222	Robinsons	Planned Work - NP	Maintenance on ROB-02
2018-02-13	2018-02-13	2.28	N/A	N/A	Grand Bay	NL Hydro Request	All available generation
2018-03-25	2018-03-25	6.60	N/A	N/A	Grand Bay	NL Hydro Request	All available generation
2019-05-21	2019-06-26	149.55	2,056	18,448,488	Blaketown	Planned work - NP	BLK-02 Feeder Upgrades for Load Growth
2019-07-03	2019-07-03	5.10	2,062	630,972	Blaketown	Planned work - NP	BLK-02 Feeder Upgrades for Load Growth (5 hrs, 6 mins)
2019-07-13	2019-07-16	76.95	664	3,065,688	Buchans	Planned work - NLH	Supplying BUC while NLH does work.
2019-07-29	2019-08-28	79.50	599	2,857,230	Trepassey	Planned work - NP	95L Maintenance (MD3 and CAT running in parallel)
2019-09-05	2019-09-12	40.47	665	1,614,661	Buchans	Planned work - NLH	Supplying BUC during Sub Work (Estimated based on split of 65.76 hours)
2019-09-22	2019-09-26	25.29	5,320	8,073,305	Grand Bay	Planned work - NLH	TL214/TL215/NLH Sub Work (Estimated based on split of 65.76 hours)
2019-10-11	2019-10-11	0.97	3,580	208,356	Grand Bay	Planned work - NLH	Support switching for NLH (Opened GBS-TL215-B to top up BIL15 at DOY)
2019-11-30	2019-11-30	1.53	1,182	108,508	Grand Bay	Unplanned Outage - NP	Supplying GBS Only, Windstorm
2020-02-17	2020-02-17	5.12	5,317	1,633,382	Grand Bay	Planned Work - NLH	TL214 Outage
2020-03-24	2020-03-26	7.32	598	262,642	Trepassey	Planned work - NP	95L Repairs
2020-04-06	2020-04-15	21.13	599	759,412	Trepassey	Planned work - NP	95L Repairs
2020-06-14	2020-06-19	12.48	5,325	3,987,360	Grand Bay	Planned work - NLH	TL214 Work
2020-08-20	2020-08-30	37.60	2,421	5,461,776	Summerford	Planned work - NP	SUM Voltage Support and Associated Testing
2020-09-14	2020-10-29	135.50	1,056	8,585,280	Dunville	Planned work - NP	DUN-01 Upgrades
2021-05-05	2021-05-19	45.00	1,056	2,851,200	Dunville	Planned work - NP	DUN-01 Upgrades
2021-06-01	2021-06-10	24.78	1,056	1,570,061	Dunville	Planned work - NP	DUN-01 Upgrades
		856.83		73,806,077			

Note [1]: Customer counts from 2015-2018 reflect end-of-year customer counts; customer counts from 2019-2020 reflect customer counts specific to the month in which the unit was operational; customer counts for 2021 reflect end-of-year customer counts for 2020.

For maintenance work associated with TL214, total customer counts for DOY, GBS, LGL and PAB substations are provided.

Note [2]: The MD3 was unavailable for service from May 15, 2018 to December 19, 2018 due to water damage.