

- 1 Q. With reference to the chart at slide 28 of the Technical Conference presentation in
2 respect of this Application, please provide projected values for the remainder of
3 2016 for the black line (the “Total System Energy Storage”) in both graphical and
4 numerical form under the following scenarios:
- 5 a. Holyrood DAFOR per the response to IC-NLH-005 above, Holyrood oil
6 generation maximized within the constraints of the DAFOR, 1961 inflows,
7 and other generation/IPP per Appendix C of the Application.
 - 8 b. Holyrood DAFOR per the response to IC-NLH-005 above, Holyrood oil
9 generation maximized within the constraints of the DAFOR, 1961 inflows,
10 IPPs per Appendix C of the Application, and other generation (turbines,
11 diesels) minimized to only target storage equal to the dotted line (or
12 alternatively, the dotted line provided in response to IC-NLH-008). Please
13 provide the unit generation (kW.h) and cost values (in the same format as
14 Appendix C) for standby fuel under this scenario.
 - 15 c. As per scenario (a), but with 1985 inflows and other generation/IPP per
16 Appendix D of the Application.
 - 17 d. As per scenario (b), but with 1985 inflows and IPP per Appendix D. Adjust
18 other generation (turbines, diesels) to minimize so as to only target storage
19 equal to the dotted line in original slide 28 in the Technical Conference or as
20 adjusted per Hydro’s response to IC-NLH-008.
 - 21 e. As per scenario (a), but with average inflows and other generation/IPP per
22 Appendix E of the Application.
 - 23 f. As per scenario (b), but with average inflows and IPP per Appendix E. Adjust
24 other generation (turbines, diesels) to minimize so as to only target storage
25 equal to the dotted line in original slide 28 in the Technical Conference or as
26 adjusted per Hydro’s response to IC-NLH-008.

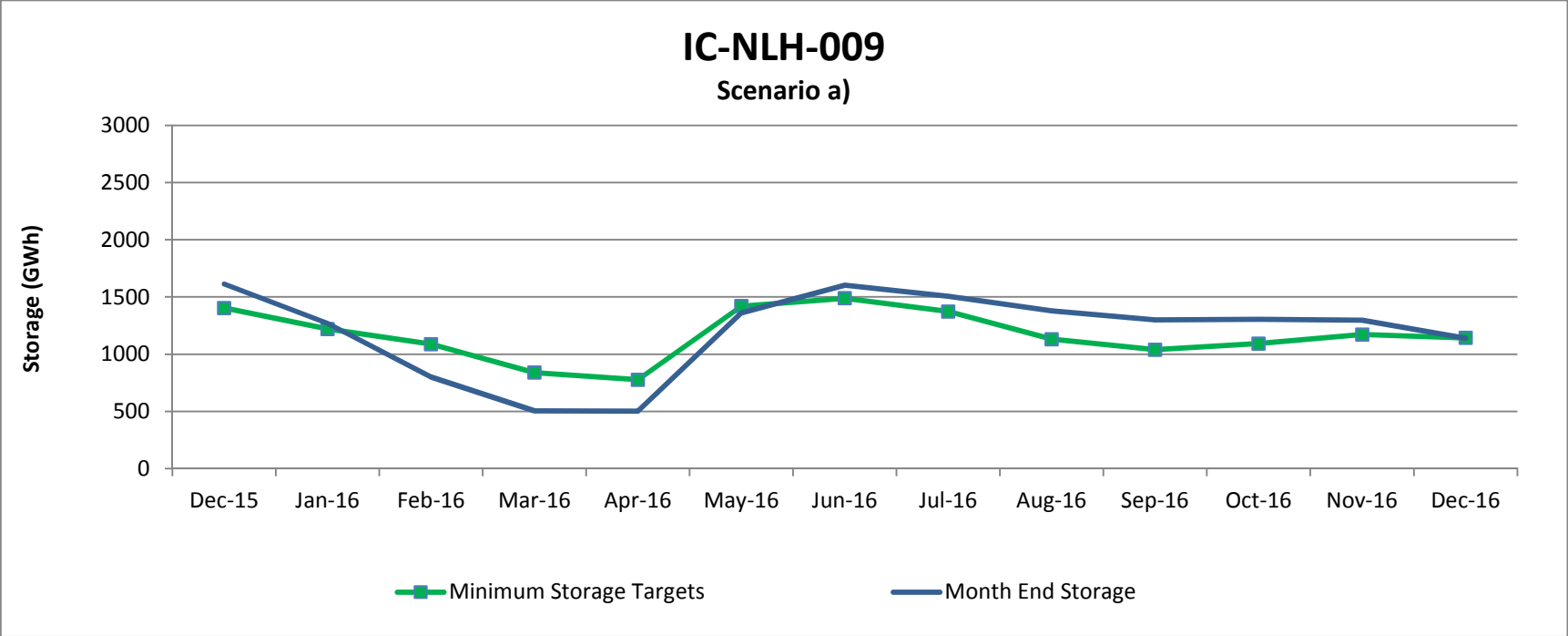
1 g. In the event Hydro sees a reasonable risk of an inflow scenario below the
2 1961 minimum, please provide an equivalent scenario (per (a) and (b)
3 above) for this inflow projection.
4
5

6 A. The projected values for the remainder of 2016 for the black line (the “Total System
7 Energy Storage”) in both graphical and numerical form under Scenarios a) to f) are
8 provided in IC-NLH-009, Attachment 1, pages 1-6. The unit generation (GWh) and
9 cost values for standby fuel under Scenarios b), d) and f) (in the same format as
10 Appendix C) are provided in IC-NLH-009, Attachment 1, pages 7-10.
11

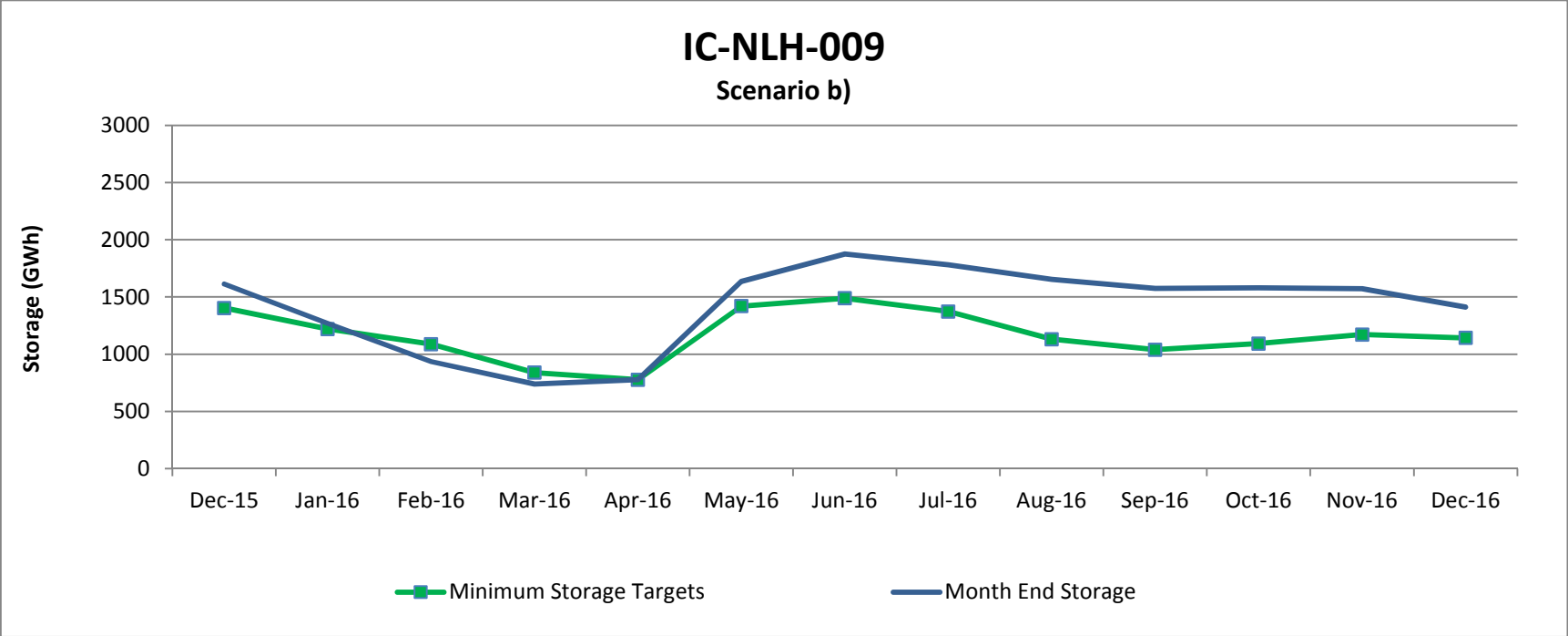
12 Hydro has used the average DAFOR in IC-NLH-005 applied to the Holyrood units for
13 the forecast months of 2016 (February – December). As per Hydro’s application,
14 the data for January (including month starting and ending storage and Standby
15 production) are actual values. In Scenarios b), d) and f) it is assumed that only the
16 Holyrood CT, Hardwoods GT and Stephenville GT are used to produce energy to
17 support system storage levels, to the extent that they are capable.
18

19 The standby generation forecasts provided in Hydro’s application under each of the
20 inflow scenarios utilized preliminary monthly storage targets, developed based on
21 the information known at the time, including Holyrood capability. For the scenarios
22 requested here, Hydro has used its final 2016 storage targets which are generally
23 higher than those used in the Application. Under Scenario a) which considers the
24 1961 inflow sequence, the amount of standby forecast in Hydro’s application would
25 result in storages well below the final 2016 minimum storage targets during the
26 winter months.

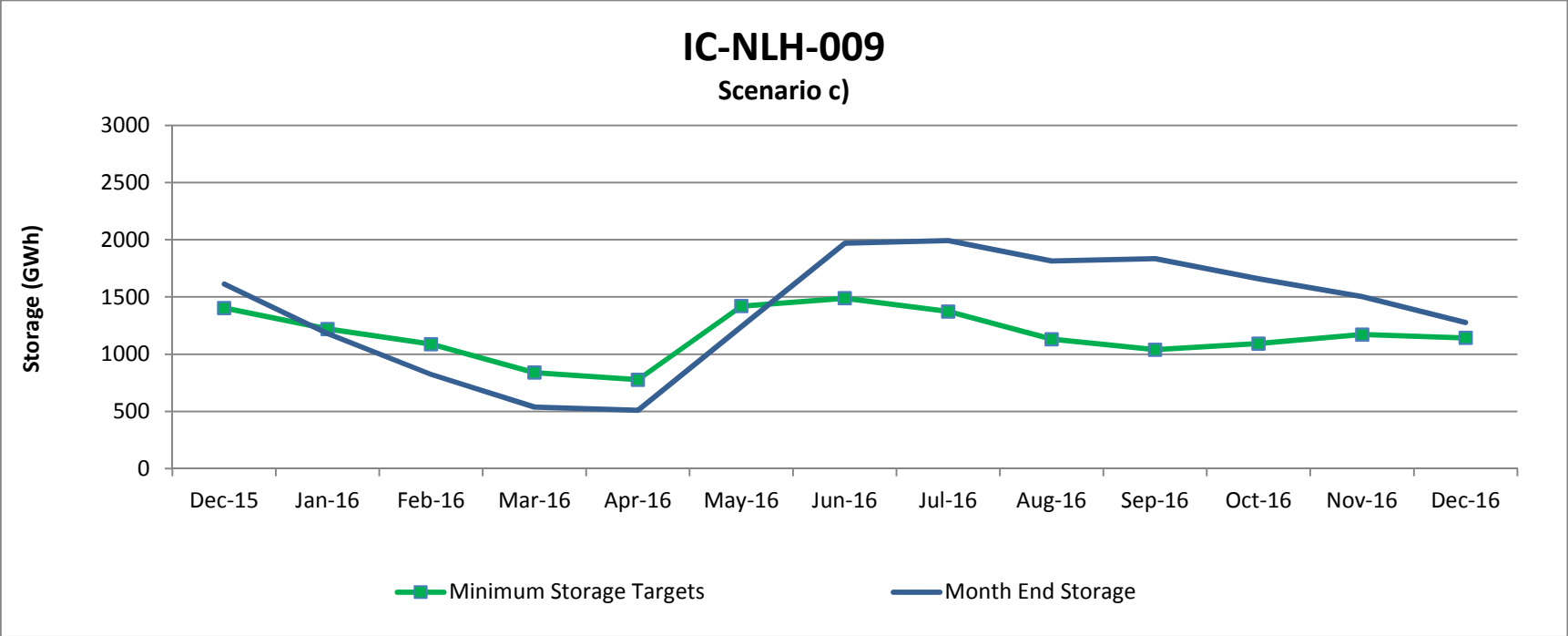
- 1 Hydro has not seen an inflow scenario below the 1961 minimum, so has not
- 2 provided an equivalent scenario (per (a) and (b) above) for another inflow
- 3 projection.



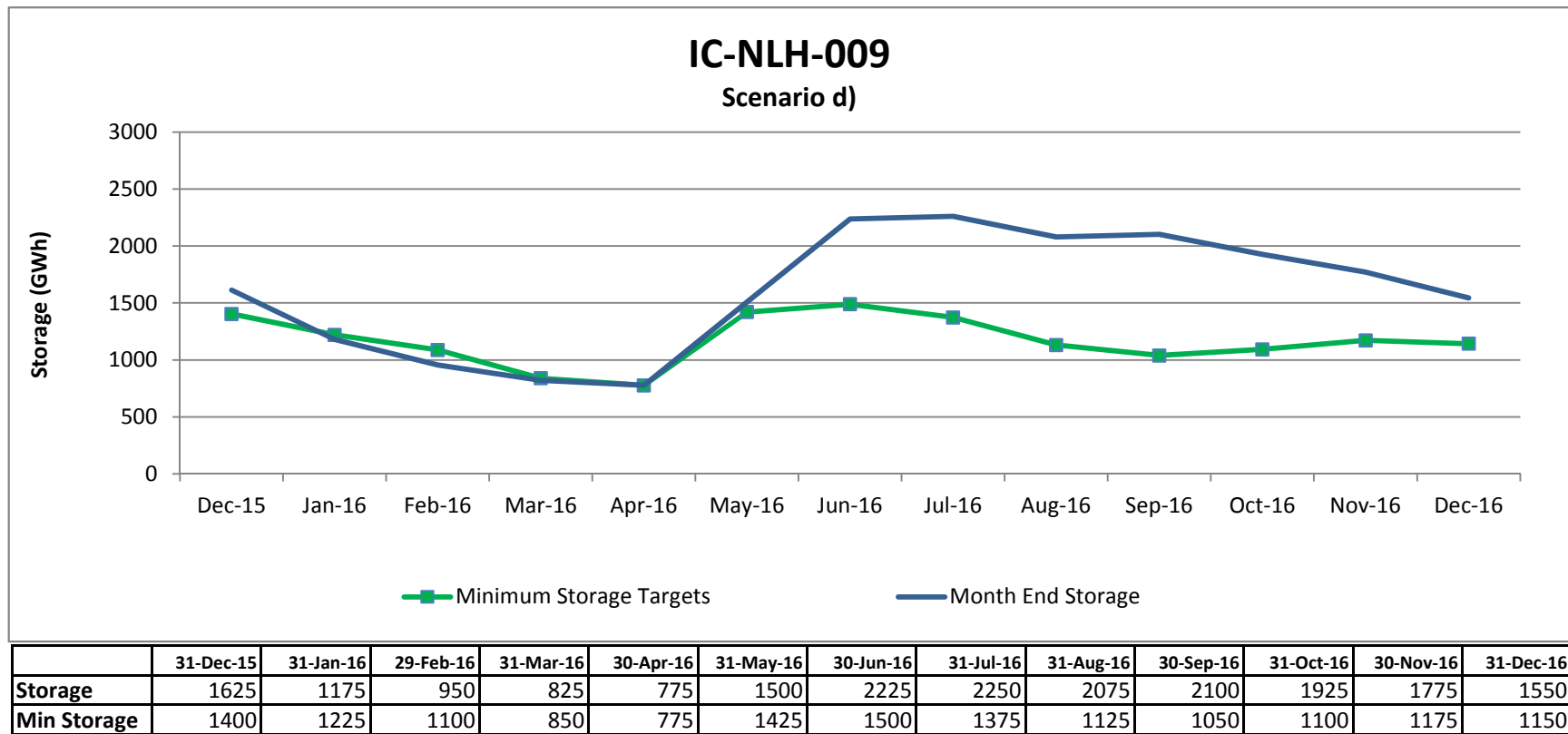
	31-Dec-15	31-Jan-16	29-Feb-16	31-Mar-16	30-Apr-16	31-May-16	30-Jun-16	31-Jul-16	31-Aug-16	30-Sep-16	31-Oct-16	30-Nov-16	31-Dec-16
Storage	1625	1275	800	500	500	1350	1600	1500	1375	1300	1300	1300	1150
Min Storage	1400	1225	1100	850	775	1425	1500	1375	1125	1050	1100	1175	1150

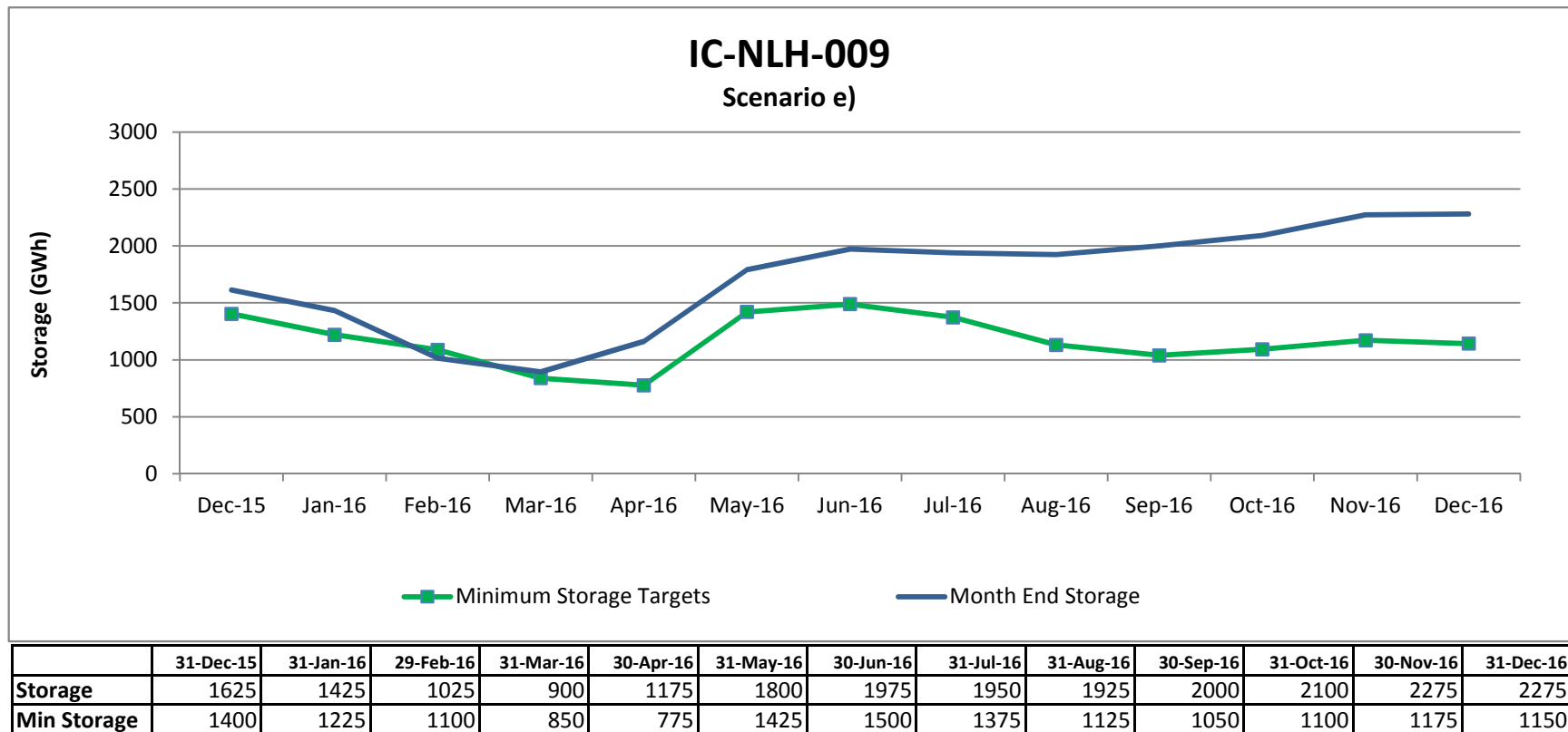


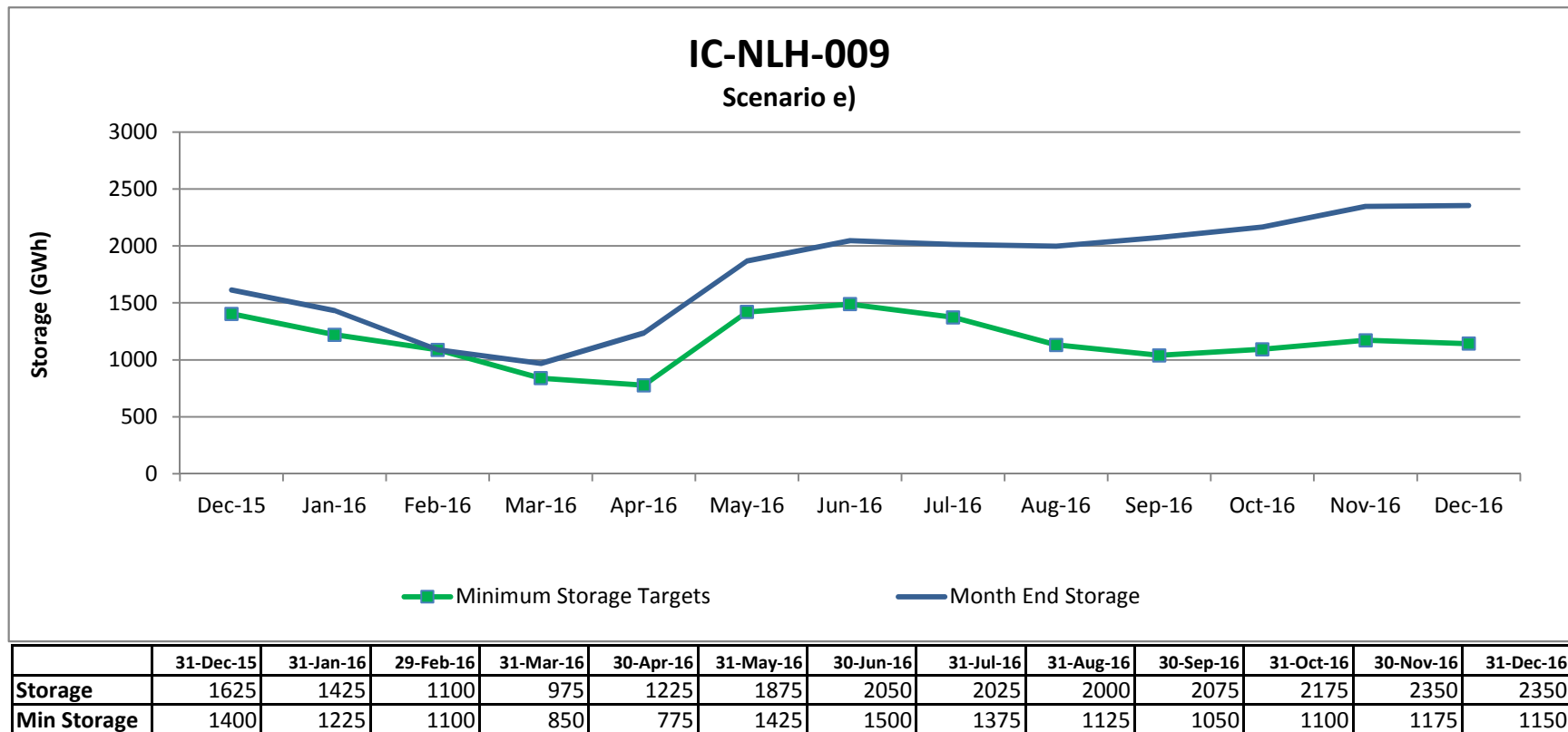
	31-Dec-15	31-Jan-16	29-Feb-16	31-Mar-16	30-Apr-16	31-May-16	30-Jun-16	31-Jul-16	31-Aug-16	30-Sep-16	31-Oct-16	30-Nov-16	31-Dec-16
Storage	1625	1275	925	750	775	1625	1875	1775	1650	1575	1575	1575	1425
Min Storage	1400	1225	1100	850	775	1425	1500	1375	1125	1050	1100	1175	1150



	31-Dec-15	31-Jan-16	29-Feb-16	31-Mar-16	30-Apr-16	31-May-16	30-Jun-16	31-Jul-16	31-Aug-16	30-Sep-16	31-Oct-16	30-Nov-16	31-Dec-16
Storage	1625	1175	825	525	500	1250	1975	2000	1825	1825	1650	1500	1275
Min Storage	1400	1225	1100	850	775	1425	1500	1375	1125	1050	1100	1175	1150







IC-NLH-009 Scenarios b), d) and f)			
NLH Standby (GWh)	Scenario b) 1961	Scenario d) 1985	Scenario f) Average
Hardwoods Gas Turbine	106.80	72.08	9.88
Stephenville Gas Turbine	75.75	67.80	1.20
Holyrood CT	304.19	223.19	139.23
Holyrood Diesels	1.71	1.71	1.71
St. Anthony and Hawkes Bay Diesels	0.48	0.48	0.48
Total Standby	488.93	365.26	152.50
NLH Standby Production (\$\$\$)			
Hardwoods Gas Turbine			
Rate (cents/kWh)	21.0	21.0	21.0
Fuel Costs (\$ Million)	\$ 22.4	\$ 15.1	\$ 2.1
Stephenville Gas Turbine			
Rate (cents/kWh)	21.0	21.0	21.0
Fuel Costs (\$ Million)	\$ 15.9	\$ 14.2	\$ 0.3
Holyrood CT			
Rate (cents/kWh)	21.0	21.0	21.0
Fuel Costs (\$ Million)	\$ 63.9	\$ 46.9	\$ 29.2
Holyrood Diesels			
Rate (cents/kWh)	19.0	19.0	19.0
Fuel Costs (\$ Million)	\$ 0.3	\$ 0.3	\$ 0.3
St. Anthony and Hawkes Bay Diesels			
Fuel Costs (\$ Million)	21.0	21.0	21.0
Fuel Costs (\$ Million)	\$ 0.1	\$ 0.1	\$ 0.1

2016 Standby Fuel Deferral Account
IC-NLH-009 (b)

[illegible]

2016 Standby Fuel Deferral Account
IC-NLH-009 (f)

[illegible]