

## 4.—Capability and Firm Power Peak Load Requirements, Actual 1951 and 1959-65 and Forecast 1966-70

(Thousand kilowatts)

| Item                                                   | Actual        |               |               |               |               |               |               |               | Forecast      |               |               |               |               |
|--------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                                        | 1951          | 1959          | 1960          | 1961          | 1962          | 1963          | 1964          | 1965          | 1966          | 1967          | 1968          | 1969          | 1970          |
| <b>Net Generating Capability—</b>                      |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Hydro-electric.....                                    | 9,044         | 17,086        | 18,516        | 18,389        | 18,651        | 19,666        | 19,964        | 21,214        | 22,211        | 22,957        | 25,277        | 26,310        | 27,126        |
| Steam—Conventional.....                                |               |               |               | 3,773         | 4,596         | 5,194         | 5,422         | 6,354         | 7,013         | 8,298         | 8,990         | 10,689        | 11,462        |
| Nuclear.....                                           |               |               |               | —             | —             | —             | —             | —             | —             | 200           | 200           | 200           | 700           |
| Internal combustion.....                               | 1,032         | 3,119         | 3,824         | 240           | 251           | 236           | 255           | 246           | 252           | 252           | 252           | 252           | 253           |
| Gas turbine.....                                       |               |               |               | 351           | 371           | 382           | 384           | 460           | 696           | 830           | 830           | 830           | 903           |
| <b>Totals, Net Generating Capability.....</b>          | <b>10,076</b> | <b>20,205</b> | <b>22,340</b> | <b>22,753</b> | <b>23,869</b> | <b>25,478</b> | <b>26,025</b> | <b>28,274</b> | <b>29,172</b> | <b>32,537</b> | <b>35,539</b> | <b>38,281</b> | <b>40,444</b> |
| Receipts of firm power from United States.....         | —             | —             | —             | 2             | 4             | 2             | 2             | —             | —             | —             | —             | —             | —             |
| Deliveries of firm power to United States.....         | 175           | 152           | 166           | 146           | 121           | 122           | 121           | 89            | 91            | 92            | 93            | 95            | 97            |
| <b>Totals, Net Capability.....</b>                     | <b>9,901</b>  | <b>20,053</b> | <b>22,174</b> | <b>22,609</b> | <b>23,752</b> | <b>25,358</b> | <b>25,906</b> | <b>28,185</b> | <b>29,081</b> | <b>32,445</b> | <b>35,446</b> | <b>38,186</b> | <b>40,347</b> |
| <b>Peak Loads—</b>                                     |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Firm power peak loads within Canada.....               | 8,989         | 16,201        | 17,264        | 18,353        | 18,972        | 20,755        | 22,506        | 24,205        | 26,924        | 28,841        | 30,689        | 32,944        | 34,821        |
| Indicated shortages.....                               | 321           | —             | —             | —             | —             | 28            | 13            | —             | —             | —             | —             | —             | —             |
| <b>Totals, Indicated Peak Loads within Canada.....</b> | <b>9,310</b>  | <b>16,201</b> | <b>17,264</b> | <b>18,353</b> | <b>18,972</b> | <b>20,783</b> | <b>22,519</b> | <b>24,205</b> | <b>26,924</b> | <b>28,841</b> | <b>30,689</b> | <b>32,944</b> | <b>34,821</b> |
| <b>Indicated Reserve.....</b>                          | <b>591</b>    | <b>3,852</b>  | <b>4,910</b>  | <b>4,256</b>  | <b>4,780</b>  | <b>4,575</b>  | <b>3,387</b>  | <b>3,980</b>  | <b>3,157</b>  | <b>3,694</b>  | <b>4,757</b>  | <b>5,242</b>  | <b>5,526</b>  |