APPENDIX I

Aluminium, with Special Reference to Use for Electrical Energy Transmission

The aluminium industry began in a very modest manner in the early 'eighties' of the last century. Several factories were operated on the St. Claire Deville method, of which the one at Salindres, France, produced 2½ tons of aluminium annually. The production increased only slowly to begin with, as will appear from the appended table* showing the world's production in metric tons†:—

1880	2.4	1907	19.800
1885	13	1908	18,600
1890	175	1909	31,200
1895	1,426	1910	43,800
1900	5,000	1911	45,000
1901	6.900	1912	61,100
1902	8.350	1913	78.790
1903	8.200	1914	84.857
1904	9.300	1915	86.394
1905	11.500	1916	112,626
1906	14.500	1917	173.500

In a review‡ of the international aluminium industry, published in 1917, it was stated that the demand for aluminium had increased greatly during the last few years. While the German, Swiss, French, and British works have had difficulty in extending greatly under war conditions, the aluminium industry in the United States has made enormous progress. The world's production of aluminium during 1917 is estimated at 173,500 metric tons, and, if the extensions and new constructions now in process of execution are taken into consideration, the capacity will increase to 200,000 tons in the near future. Such a large production would prevent excessive prices of aluminium, but it is questioned whether sufficient supply of alumina, bauxite, cryolite, etc., will be on hand in time to produce 200,000 tons.

^{*}Statistics for 1880-1902 from Engineering, Aug. 16, 1918, p. 163; for 1903-12, from Metallgesellschaft, 1903-1912, p. 16; for 1912-17, from Mineral Industry during 1917, p. 10.

[†]The metric ton is 2,204 lbs, but, as these statistics are only close approximations or estimates, it is assumed to be 2,200 lbs.

[‡]Electrical Review, London, March 30, 1917.

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