



# The Edinburgh Gazette

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TUESDAY, JANUARY 18, 1910.

At the Court at Buckingham Palace, the 10th day of January 1910.

PRESENT,

The King's Most Excellent Majesty in Council.

**W**HEREAS by "The Weights and Measures Act, 1889," it is, among other things, enacted that the Board of Trade shall from time to time cause such new denominations of standards for the measurement of electricity as appear to them to be required for use in trade to be made and duly verified.

And whereas by Order in Council dated the 23rd day of August, 1894, Her late Majesty Queen Victoria, by virtue of the power vested in Her by the said Act, by and with the advice of Her Privy Council, was pleased to approve the several denominations of standards set forth in the Schedule thereto as new denominations of standards for electrical measurement.

And whereas in the said Schedule the limits of accuracy attainable in the use of the said denominations of standards are stated as follows:—

For the Ohm within one hundredth part of one per cent.

For the Ampere within one tenth part of one per cent.

For the Volt within one tenth part of one per cent.

And whereas, at an International Conference on Electrical Units and Standards held in London in the month of October, 1908, the International Electrical Units corresponding with the said denominations of standards were defined as follows:—

The International Ohm is the resistance offered to an unvarying electric current by a column of mercury at the temperature of melting ice 14·4521 grammes in mass of a

constant cross sectional area and of a length of 106·300 centimetres.

The International Ampere is the unvarying electric current which when passed through a solution of nitrate of silver in water deposits silver at the rate of 0·00111800 of a gramme per second.

The International Volt is the electrical pressure which when steadily applied to a conductor whose resistance is one International Ohm will produce a current of one International Ampere.

And whereas it has been made to appear to the Board of Trade to be desirable that the denominations of standards for the measurement of electricity should agree in value with the said International Electrical Units within the said limits of accuracy attainable.

And whereas the denominations of standards made and duly verified in 1894 and set forth in the Schedule to the said Order in Council have been again verified.

And whereas the Board of Trade are advised that the said denominations of standards agree in value with the said international electrical units within the said limits of accuracy attainable, except that in the case of the Ohm the temperature should be 16·4 c. in place of 15·4 c. as specified in the Schedule to the said Order in Council.

And whereas it has been made to appear to the Board of Trade that the said denominations of standards should be amended so that the aforesaid exception may be remedied.

Now, therefore, His Majesty, by virtue of the power vested in Him by the said Act, by and with the advice of His Privy Council, is pleased to revoke the said Order in Council dated the 23rd day of August, 1894, and is further pleased to approve the several denominations of standards