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3-19-1897

### Letter from C. O. Mailloux to Newport Illuminating Co, copy to John Yale

C. O.

Newport Illuminating Co.

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C. O. MAILLOUX,  
CONSULTING ELECTRICAL ENGINEER,  
AM. TRACT SOCIETY BLDG.,  
150 NASSAU ST.

CONCERNING ELECTRICAL WORK

TELEPHONE, No. 3985 CORTLANDT.

AT Goelet Residence - Newport.

NEW YORK, March 19th, 1897 89

*Copy to John Yale Esq*

Newport Illuminating Company,

Newport, R.I.

Gentlemen:-

With further reference to the insulation tests made March 11th of the Primary Cable to Mr. Goelet's Converter-Room House, I beg to inform you that the correct calculations showed the insulation between the inside conductor and the ground to be deficient. The average value of all readings taken when corrected for the temperature and for the length of the cable, as in all previous tests, is 35.1 Megohms per mile. The insulation between the two conductors is above the guaranteed limit, (100 Megohms per mile), and so is the insulation between the outside conductor and the ground. I can only account for the peculiar fact of the inner conductor having poorer insulation than the outer one, on the theory that the leakage occurs, not in the Cable itself so much as at the joints, or at the coupling boxes serving to connect together the eight sections of which the total length is made up. On looking up the records, I find that the defects which were repaired in December, 1894, were actually found to be at one of those junction boxes. It is possible, therefore, that it may be necessary merely to over-haul one or more of these junction boxes in order to make the cable all right.

Will you kindly arrange to have the cable over-hauled at the earliest possible date. I expect to test it again after it has been over-hauled, and I would like to have the whole matter disposed of so that the cable shall be in perfectly satisfactory condition not later than the 15th of May.

Yours very truly,