

MAY 20 1907

Transfer No. 1097

Form 28-500-5-07



American Institute of Electrical Engineers,

33 WEST THIRTY-NINTH STREET

RALPH W. POPE,

SECRETARY.

TELEPHONE 4600 BRYANT.

CABLE ADDRESS, CYANDRIC.

Mr. F.B.H. Paine,
Iroquois Const. Co., Buffalo, N.Y.

NEW YORK,

May 13th, 1907.

Dear Sir:

An application for transfer from the grade of Associate to that of Member in the Institute has been filed by

Mr. Calvert Townley, of New Haven, Connecticut,
who has referred to you as one who is familiar with his electrical engineering work.

For the information of the Board of Examiners and the Board of Directors will you kindly reply to the following inquiries:

Very truly yours,

Secretary.

For how long a period have you personally known the applicant?

20 years

Kindly state instances within your personal knowledge of Electrical Engineering work; or, of important original work of recognized value to electrical science, performed by the applicant, and your opinion of same.

Few men have been more active than Mr. Townley during this past twenty years in the general development of Electric Light, Power and Railway work along broad engineering lines. The most important individual instances within my personal knowledge are

- 1st The general engineering and guidance of the installation at Hartford Conn, in 1896 I believe, which has been known as the 'Hartford System' and marked a radical departure in methods of urban distribution of Elec. Light and Power.
- 2nd During the '90's the ^{complete} electric equipment of pulp & paper mills in New England, at that time an important and distinct advance in the application of electric transmission to a new service and resulting in the universal operation of this class of manufactures by electric motors.
- 3rd The important part taken by Mr. Townley in the studies of the operation of the Manhattan Railway, and ^{his part} its subsequent electric generating and car equipment.
- 4th Work of the same nature in connection with the New York Subway electrification.

Signed

F. B. H. Paine.

In order to avoid unnecessary delay in considering this case, please return this form before

May 20th.

As Consulting Engineer and acting 4th V. Pres. of the N.Y. N. H. & H. Ry. Co. for its great electrification
I am in favor of Calvert Townley

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American Institute of Electrical Engineers,

33 WEST THIRTY-NINTH STREET

RALPH W. POPE.

TELEPHONE 4600 BRYANT.

SECRETARY.

CABLE ADDRESS, CYANDRIC.

Mr. Chas. F. Scott,
P.O. Box 911, Pittsburg, Pa.

NEW YORK, May 13th, 1907.

Dear Sir:

An application for transfer from the grade of Associate to that of Member in the Institute has been filed by

Mr. Calvert Townley, of New Haven, Connecticut,
who has referred to you as one who is familiar with his electrical engineering work.

For the information of the Board of Examiners and the Board of Directors will you kindly reply to the following inquiries:

Very truly yours,

Secretary.

For how long a period have you personally known the applicant?

Nearly 20 years.

Kindly state instances within your personal knowledge of Electrical Engineering work; or, of important original work of recognized value to electrical science, performed by the applicant, and your opinion of same.

Mr. Townley was connected with the Westinghouse Company in various capacities, principally in connection with its commercial departments, from 1887 to 1904. I recall that some of his early work was the laying out of station apparatus, and feeder and wiring systems for lighting plants. This same general relation of commercial to engineering work continued, and he had to do with engineering matters both internal and external; i.e., in connection on the one hand, with types of apparatus to be manufactured for commercial use, and, on the other hand, its selection and application to particular cases. During the last years of his connection with the Company his work was, what could be termed, consulting

Signed

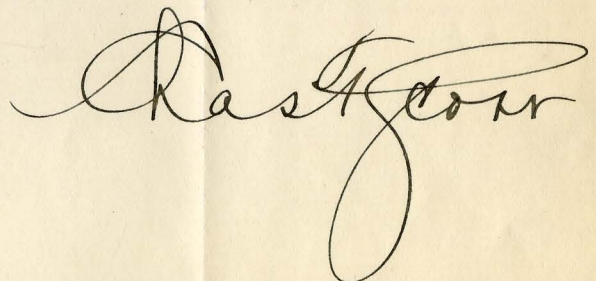
In order to avoid unnecessary delay in considering this case, please return this form before May 20th.

Good opinion Calvert Townley -

engineering in character. In connection, for example, with larger railway systems he made a careful study of the requirements for motor operation and for control apparatus. He analyzed the conditions carefully, made a minute study of the construction and characteristics of the apparatus, and then made careful studies of the general situation, analyzing the conditions and the suitability of various types of apparatus for meeting the requirements. In this work he showed a general grasp of the problems involved from both the engineering and the commercial standpoints, and did work which was of a high order as consulting engineer.

During the past few years, as consulting engineer to the New York, New Haven & Hartford Railroad Company, he has made a most careful study of the conditions, and his conclusions and judgment have been important factors in determining the policy of that Company with regard to electrification. His executive duties in connection with the Consolidated Railroad Company are such as to require and receive from him a consideration with respect to engineering matters, which makes him largely a technical adviser as well as executive.

His wide acquaintance with electrical operation, his clear logical methods and his judgment with regard to engineering matters are such as to give him merited rank as a consulting engineer.

A handwritten signature in cursive script, appearing to read "Rastgeorn". The signature is written in dark ink and is located in the lower right quadrant of the page.

Transfer No. 1067

Form 28-500-5-07



American Institute of Electrical Engineers,

33 WEST THIRTY-NINTH STREET

RALPH W. POPE,

SECRETARY.

TELEPHONE 4600 BRYANT.

CABLE ADDRESS, CYANDRIC.

Mr. W. S. Murray,
New Haven, Conn.

NEW YORK,

May 13th, 1907.

Dear Sir:

An application for transfer from the grade of Associate to that of Member in the Institute has been filed by

Mr. Calvert Townley, of New Haven, Connecticut,
who has referred to you as one who is familiar with his electrical engineering work.

For the information of the Board of Examiners and the Board of Directors will you kindly reply to the following inquiries:

Very truly yours,

Secretary.

For how long a period have you personally known the applicant?

Twelve (12) years.

Kindly state instances within your personal knowledge of Electrical Engineering work; or, of important original work of recognized value to electrical science, performed by the applicant, and your opinion of same.

Note letter attached.

Signed

In order to avoid unnecessary delay in considering this case, please return this form before May 20th.

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THE NEW YORK, NEW HAVEN AND HARTFORD R. R. CO.

NEW HAVEN, CONN.,

May 18th, 1907.

OFFICE OF
ELECTRICAL ENGINEER

Mr. Ralph W. Pope, Secretary,
American Institute of Electrical Engineers,
33 West 39th St., N. Y. City, N.Y.

Dear Sir,=

Replying to your letter of May 13th and noting application of transfer from the grade of "Associate" to that of "Member" in the Institute as filed by Mr. Calvert Townley, I would answer your questions 1 and 2 as follows:=-

(1) I have known Mr. Townley for 12 years.

(2) In April, 1905, Mr. Townley, as Acting Fourth Vice President of the N. Y., N. H. & H. R. R. Co., due to Mr. McHenry's illness, held that position during the complete time of inception of the plans of the N. Y., N. H. & H. R. R. Company's single phase electrification. Convinced myself of the application of single phase electrification, in virtue of the conditions imposed, I so recommended to Mr. Townley. Likewise convinced by an individual, exhaustive and analytical study of the situation, Mr. Townley declared himself in a like belief. His statement of the case to President Mellen brought about the conclusions that are now well known. When Mr. McHenry assumed the duties of Fourth Vice President, and later

1557

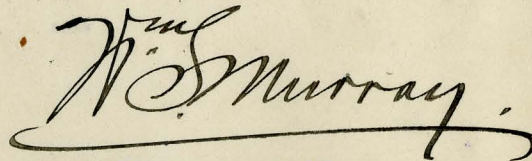
Good opinion Calvert Townley

Vice President, Mr. Townley was appointed Consulting Engineer for the New Haven road. This office he is now holding and during the period of construction in accordance with the plans previously conceived, Mr. Townley's level-headed and sound judgment and advice, has been the source of the greatest assistance in the prosecution of the work.

I do not have to refer to the many contributions Mr. Townley has made in the engineering papers, in which has been clearly depicted the sound reasoning which has guided him in the conclusions he has expressed concerning the application of single phase electrification to the New Haven Railroad.

I can say with no less conviction than pleasure that notwithstanding an alien precedent, Mr. Townley's forceful engineering presentation of the advantages to be gained by single phase electrification decided Mr. Mellen in favor of it, and to him we owe the debt of its initiation as a commercial agent for heavy traction.

Yours very truly,

A handwritten signature in cursive script, reading "W. S. Murray". The signature is written in dark ink and is positioned above the typed name.

Electrical Engineer.

M-W

enc

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Transfer No. 1097

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American Institute of Electrical Engineers,

33 WEST THIRTY-NINTH STREET

RALPH W. POPE,

SECRETARY.

TELEPHONE 4600 BRYANT.

CABLE ADDRESS, CYANDRIC.

Mr. N. W. Storer,
P.O. Box 911, Pittsburg, Pa.

NEW YORK, May 13th, 1907.

Dear Sir:

An application for transfer from the grade of Associate to that of Member in the Institute has been filed by

Mr. Calvert Townley, of New Haven, Connecticut,
who has referred to you as one who is familiar with his electrical engineering work.

For the information of the Board of Examiners and the Board of Directors will you kindly reply to the following inquiries:

Very truly yours,

Ralph W. Pope

Secretary.

For how long a period have you personally known the applicant?

About 15 years

Kindly state instances within your personal knowledge of Electrical Engineering work; or, of important original work of recognized value to electrical science, performed by the applicant, and your opinion of same.

Mr Townley's work as General Agent of The Westinghouse E. & M. Co require engineering ability of a high order. I have been closely associated with him in many important engineering propositions and have always admired his great resourcefulness & his ability to grasp all engineering details. Probably his most important work is in the organization and plans for the electrification of the New York, New Haven & Hartford Ry, for which he has been largely responsible.

It gives me great pleasure to give his application the very highest endorsement.

Signed *N. W. Storer*

In order to avoid unnecessary delay in considering this case, please return this form before May 20th.

Good opinion on Calvert Townley

MAY 18 1907

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American Institute of Electrical Engineers,

33 WEST THIRTY-NINTH STREET

RALPH W. POPE,

SECRETARY.

TELEPHONE 4600 BRYANT.

CABLE ADDRESS, CYANDRIC.

Mr. C. A. Terry,
111 Broadway, N.Y. City.

NEW YORK, May 13th, 1907.

Dear Sir:

An application for transfer from the grade of Associate to that of Member in the Institute has been filed by

Mr. Calvert Townley, of New Haven, Connecticut,
who has referred to you as one who is familiar with his electrical engineering work.

For the information of the Board of Examiners and the Board of Directors will you kindly reply to the following inquiries:

Very truly yours,

Secretary.

For how long a period have you personally known the applicant?

About 19 years;

Kindly state instances within your personal knowledge of Electrical Engineering work; or, of important original work of recognized value to electrical science, performed by the applicant, and your opinion of same.

Mr. Townley was associated with the Westinghouse Electric & Manufacturing Company for about 17 years. During this time he had important electrical engineering work to do. He was always regarded by the Officials of the Company, as being exceptionally capable in his profession.

For two and one-half years he has been in charge of the electrical engineering work of the New York, New Haven & Hartford Railroad Company, and its underlying companies.

Signed

May 20th.

In order to avoid unnecessary delay in considering this case, please return this form before

Good opinion Calvert Townley

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Transfer No. 1067

Form 28-500-5-07

American Institute of Electrical Engineers,

33 WEST THIRTY-NINTH STREET

RALPH W. POPE,

TELEPHONE 4600 BRYANT.

SECRETARY.

CABLE ADDRESS, CYANDRIC.



Professor W. L. Robb,
Rensselaer Poly. Inst., Troy, N.Y.

NEW YORK, May 13th, 1907.

Dear Sir:

An application for transfer from the grade of Associate to that of Member in the Institute has been filed by

Mr. Calvert Townley, of New Haven, Connecticut,
who has referred to you as one who is familiar with his electrical engineering work.

For the information of the Board of Examiners and the Board of Directors will you kindly reply to the following inquiries:

Very truly yours,

Secretary.

For how long a period have you personally known the applicant?

Twelve years.

Kindly state instances within your personal knowledge of Electrical Engineering work; or, of important original work of recognized value to electrical science, performed by the applicant, and your opinion of same.

*Electrification of the New York Division of the
New York New Haven and Hartford Rail Road.*

*During Mr. Townley's connection with the Westinghouse
Electric and Mfg Co, his advice in engineering
matters to various Electric Light & St. Railway
Companies was of great value. This was
especially the case in the electrification of
the Boston elevated. I have always considered
Mr. Townley a very capable electrical engineer
and entitled to full membership in the Institute.*

Signed *Wm. Leonard Robb*

In order to avoid unnecessary delay in considering this case, please return this form before

May 20th.

Good opinion Calvert Townley

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American Institute of Electrical Engineers,

33 WEST THIRTY-NINTH STREET

RALPH W. POPE,

SECRETARY.

TELEPHONE 4600 BRYANT.

CABLE ADDRESS, CYANDRIC.

Mr. George Gibbs,
10 Bridge Street, N.Y. City.

NEW YORK, May 13th, 1907.

Dear Sir:

An application for transfer from the grade of Associate to that of Member in the Institute has been filed by

Mr. Calvert Townley, of New Haven, Connecticut,
who has referred to you as one who is familiar with his electrical engineering work.

For the information of the Board of Examiners and the Board of Directors will you kindly reply to the following inquiries:

Very truly yours,

Ralph W. Pope

Secretary.

For how long a period have you personally known the applicant?

For about - 10 years.

Kindly state instances within your personal knowledge of Electrical Engineering work; or, of important original work of recognized value to electrical science, performed by the applicant, and your opinion of same.

He has been engaged for many years in furthering the development and introduction of electric apparatus, generally from the commercial standpoint, as an officer of the Westinghouse & Mfg. Co. Since leaving the above Co. he has largely instrumental in securing the adoption of the "Single Phase" system of traction on the N.Y. New Haven & H. Ry. as an officer of the Ry. Co.

Signed

Tom Felt

In order to avoid unnecessary delay in considering this case, please return this form before May 20th.

Good opinion Calvert Townley

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American Institute of Electrical Engineers,

33 WEST THIRTY-NINTH STREET

RALPH W. POPE,

SECRETARY.

TELEPHONE 4600 BRYANT.

CABLE ADDRESS, CYANDRIC.

Mr. E. H. McHenry,
New Haven, Conn.

NEW YORK, May 13th, 1907.

Dear Sir:

An application for transfer from the grade of Associate to that of Member in the Institute has been filed by

Mr. Calvert Townley, of New Haven, Connecticut,
who has referred to you as one who is familiar with his electrical engineering work.

For the information of the Board of Examiners and the Board of Directors will you kindly reply to the following inquiries:

Very truly yours,

Ralph W. Pope

Secretary.

For how long a period have you personally known the applicant?

Two years

Kindly state instances within your personal knowledge of Electrical Engineering work; or, of important original work of recognized value to electrical science, performed by the applicant, and your opinion of same.

*Mr. Townley engaged with the N.Y. N.Y. & H.P.R. Co
two years ago in the capacity of Acting Vice
President in charge of all trolley lines and
installations owned or controlled by that company
also in charge of all electrical engineering in
connection with Standard electrical operations
of the New Haven Co. "Electric" line. I can
personally vouch for his high standing as
an engineer and for his engineering ability
and experience in all matters under his
charge.*

Signed

E. H. McHenry
Vice Pres
May 20th. N.Y. N.Y. & H.P.R.

In order to avoid unnecessary delay in considering this case, please return this form before

Good opinion Calvert Townley.