

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

Record of Application for

TRANSFER TO THE GRADE OF FELLOW

No. 5080

Name Mr. J. Allen Johnson, Electrical Engineer

Address Niagara Falls Power Co.,

Niagara Falls, N.Y.

References	Grade	Communicated With	Second Request	Replies Received
P M Lincoln	Fellow	July 23, 1927		AUG 27 1927
J C Parker	"	"		JUL 28 1927
Wm J Foster	"	"		JUL 28 1927
R B Williamson	"	"		AUG 1 1927
F D Newbury	"	"		JUL 29 1927
H B Smith	"	"		JUL 30 1927
D W Roper	"	"		AUG 1 1927
C F Scott	"	"		JUL 29 1927
L E Imlay	"	"		AUG 3 1927

Action by Board of Examiners *Recommended*

Date OCT 5 1927

Action by Board of Directors *Recommended*

Date DEC 3 1927

Posted in *November* JOURNAL.

4585



5080



AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
33 WEST 39TH STREET, NEW YORK, N. Y.

APPLICATION FOR TRANSFER TO THE GRADE OF FELLOW.

QUALIFICATIONS FOR TRANSFER.

The qualifications for transfer to the grade of Fellow are set forth in Article II, Section 4, of the Constitution, which is printed on the last page of this form. Applicants are urged to read these extracts carefully in order that they may have a perfect knowledge of the constitutional requirements.

Applicant's name J. Allen Johnson

Present title or occupation Electrical Engineer

Business address The Niagara Falls Power Co., Niagara Falls, N. Y.

TRANSFER FEES AND DUES.

Transfer fee from the grade of Associate to that of Fellow, Ten (10) dollars.

Transfer fee from the grade of Member to that of Fellow, Five (5) dollars.

The annual dues for the grade of Fellow are Twenty (20) dollars.

REFERENCES.

Sec. 10 (Constitution). Applicants shall give references as follows:

For the grade of Fellow, to five Fellows.

Should an applicant for the grade of Fellow, either for direct admission or for transfer, certify that he is not personally known by five Fellows, the Board of Examiners may accept, for the deficiency, references to five professional engineers of standing. (This clause has been interpreted to apply only to applicants whose location or conditions of work are such that it is unreasonable to expect them to make reference to members of the institute.)

References should be selected who have personal knowledge of the applicant's engineering experience.

As references occasionally fail to reply promptly to inquiries, it is suggested that applicants furnish more than the required number of names.

Franklin Hall
Cornell Univ. Ithaca

REFERENCES.

Worcester Poly Inst
Worcester, Mass.

- Fellow Paul M. Lincoln
Bklyn. Edison Co Pearl & Jelloughly St
- Fellow John C. Parker
2 Douglas Rd Schenectady
- Fellow Wm. J. Foster
Allis Chalmers Mfg Co Milwaukee
- Fellow R. B. Williamson
Westinghous E. & M Co Pittsburg
- Fellow F. D. Newbury

- Fellow Harold B. Smith
- N. L. Pollard
Bd of Ed
- Fellow W. W. Adams St. 2528
D. W. Roper Chicago
- Fellow Yale Univ N. Haven
Chas. F. Scott
- Fellow Niagara Falls P. Co
L. E. Inlay Niagara Falls N.Y.

(Associate 1907.)

The following information is required by the Board of Examiners. Failure to give details will delay action on the application.

The applicant should state under which clause or clauses, a, b, c, d, of Section 4, Article II, of the Constitution, application is made, and give a full record of professional career, with particular reference to the period of responsible charge or the experience upon which the application is based.

APPLICANT'S RECORD
(Typewritten copy preferred)

1. Name Joseph Allen Johnson
(give in full)
2. Present occupation Electrical Engineer, The Niagara Falls Power Co.
(title, and name of concern)
3. Business address Niagara Falls, N. Y.
4. Date and place of birth June 21, 1882, Northboro, Massachusetts
5. Constitutional clause (a) (d)
(see paragraph above)
6. General and technical education Public & High Schools, Northboro, Mass.
Four years at Worcester Polytechnic Institute, Worcester, Mass.
Bachelor of Science in Electrical Engineering 1905.
7. Record of professional experience

Dates here	
	<u>Under Constitutional Clause (a)</u>
June-Sept. 1904	<u>The Ontario Power Company of Niagara Falls, Niagara Falls, Ont.</u> <u>Electrolysis Surveys for 18' diam. Steel Conduit.</u>
June, 1905	<u>The Ontario Power Company of Niagara Falls</u>
to	<u>General electrical engineering work as junior engineer</u> <u>in Electrical Engineering Department.</u>
May, 1912	<u>Appointed Electrical Engineer of The Ontario Power Company</u>
to	<u>of Niagara Falls, in responsible charge under Chief</u>
Nov., 1917	<u>Engineer for all electrical design and engineering.</u>
1912	<u>While still with Ontario Power Co. was in responsible charge</u>
to	<u>of design of electrical features of plant of Salmon River</u>
1913	<u>Power Co., Altmar, N. Y.</u>
Nov., 1917	<u>Hydro-Electric Power Commission of Ontario, Toronto Ont.</u>
to	<u>Assistant Engineer and Electrical Engineer for The</u>
Feb., 1918	<u>Ontario Power Co. of Niagara Falls.</u>

Dates here	Applicant's Record (continued)
Feb., 1918	<u>Cliff Electrical Distributing Company, Niagara Falls, N. Y.</u> <u>Appointed Electrical Engineer of this Company early in</u> <u>1918, in responsible charge of electrical design and</u> <u>engineering of new projects.</u>
Oct., 1918	<u>The Niagara Falls Power Company, Niagara Falls, N. Y.</u> <u>Upon consolidation of the Cliff Electrical Distributing</u> <u>Company, Hydraulic Power Company, and Niagara Falls Power</u> <u>to</u> <u>Company into The Niagara Falls Power Company, became</u> <u>Electrical Engineer of latter company in responsible charge</u> <u>date</u> <u>of all electrical design and engineering work.</u>

Signed J. Allen Johnson

Dated July 20, 1927

NOTE: The Applicant's personal signature, in ink, must appear at the end of this record.
If not sufficient space, the record may be continued on separate sheets of this size.

Under Constitutional Clause (d)

- 1910 Originated and installed in the plant of The Ontario Power Company of Niagara Falls a new system of alternator excitation, comprising individual exciters and voltage regulators with the regulators compounded or compensated with quadrature or "third phase" current, thus for the first time making possible the stable operation in parallel on a common bus of alternators equipped with individual exciters and voltage regulators. See "Excitation and Voltage Control in the Plant of The Ontario Power Company of Niagara Falls", Electric Journal, November, 1914.
- 1916 Discovered effect of reactance between groups of A.C. generators in limiting flow of synchronizing power and thereby causing instability of synchronism. See "Reactors in Hydro-electric Stations", Transactions A.I.E.E., 1917.
- 1921 Originated and pioneered, by adoption for 65,000 kv-a. generators of The Niagara Falls Power Company (1922), a new system of power supply for generating station auxiliaries comprising the use of an A.C. auxiliary generator direct connected to the main generator. See annual report of Electrical Apparatus Committee, N.E.L.A., May, 1922.
- 1923 Developed new method and devices for control and detection of fire in large A.C. Generators. See "Fire Protection of A.C. Generators", A.I.E.E. Journal, November, 1926.
- 1920 Developed improvements in retardation method of measuring losses in rotating machinery. See "The Retardation Method of Loss Determination as Applied to the Large Niagara Falls Generators", A.I.E.E. Journal, June, 1926. (Best paper prize -
- 1924 Dist. No. 1 - 1926)