(623)

MAY 23 '18 — S.V.6. — MAY 22 1918

Form 183-10000-11-17.

THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

33 West 39th Street, New York

A. I. E. E. NOV 22 1917 NEW YORK

PERSONAL CLASSIFICATION SHEET

Read pages 2, 3 and 4 before filling out this blank

Please return this sheet with your data, even if you have filled out similar blanks for other organizations

Name in full RICE, (Surname) CALVIN (First name) WINSOR (Second name) Date November 16 1917.

Mail address 29 West 39th Street (Number) (Street)

New York (City) Vanderbilt (State)

Telegraph address same Telephone No. 4600 Married? Yes Dependents? 3 (If widower answer no.)

Occupation or position Secretary ~~Consulting Engineer~~

Name of employer American Society of Mechanical Engineers

Location 29 West 39th Street, New York, N. Y.

Kind of business ~~Consulting Engineer~~

Birth: Year 1868 Country U.S.A. When naturalized?

Citizen of what country? U.S.A.

Physical condition ~~good~~

Education { Common School Yes; High School Yes } College Mass. Inst. Tech. (Name of College) Course Elec. Year graduated 1890 Degree B.S.

Member of what engineering and technical societies? A.S.M.E., A.I.E.E., & E.E. (London)

What foreign languages do you speak? ~~French-German~~ Fluently? Read French German

In what countries have you resided and what years?

In what countries traveled extensively? England, France, Germany & Italy

What military or naval training? M.I.T. drill

Are you in active service or reserve? NO Rank?

Member of what war committees? Military Engineering Committee Engineering Com., Advisory Com., Council of Ntl. Defense

---

Please *review carefully* pages 2, 3 and 4, and enter in the following spaces brief descriptions and symbols of the leading specialties in which you have had *considerable experience*. For example, the symbols for an inspector of underground electrical transmission systems would be "A7, B12, Fa 1b."

Specialties in which you have had greatest experience (This table is for indexing purposes)	Symbols of Specialties
Application of electricity to industry, lighting power transportation, mining etc	
Can design, construct, install and operate electric power apparatus, lighting, power stations, public utilities, distribution systems	

Other Specialties ~~Industrial Engineering~~ A. 32

INDUSTRIAL AND PROFESSIONAL EXPERIENCE

Check (✓) each division in which you have had sufficient experience to be of service. Use blank spaces as needed.

A BRANCHES OF ENGINEERING.

	1 Aeronautics	X	10 Hydraulic		19 Military		28 Railroad
	2 Automotive		11 Illuminating		20 Mining		29 Safety, Fire Prevention
	3 Architecture		12 Marine		21 Municipal		30 Telegraph, Telephone (see *E* 1-6)
	4 Ballistics		13 Mathematics		22 Naval Architecture		
	5 Chemical	X	14 Mechanical		23 Navigation		31 Welfare Work
	6 Civil		15 Metallurgy		24 Patent Law		
X	7 Electrical		16 Metallography	X	25 Power		32 Industrial.
	8 Gas		17 Machine Shop Practice	X	26 Public Utility Service		
	9 Heating and Ventilating		18 Mill (Textile, etc.)		27 Physics		

B POSITIONS HELD IN "*A*".

Check the most important positions you have held, and follow by number of the branch checked under "*A*."
For example, a consulting heating and ventilating engineer should mark the list below as follows:
"✓ 2 Consulting Engineer *A* 9."

	1 Appraiser	X	8 Erecting Engineer A 7,10	X	17 Operating Engineer A 7,10,14 20,25		28 Teacher		
X	2 Consulting Engineer A7,14,25		9 Estimator / 14,20,25	X	18 Organizing Engineer A7,14,25		29 Testing Engineer		
X	3 Constructing Engineer a7,10		10 Executive, general	X	19 Production Engineer	X	30 Works Manager A7,14,25		
	4 Contractor / 20,25	X	10a Foreman A 7,25		20 Publicity Engineer		31 Writer		
X	4a Department Manager 26		11 Industrial Engineer		21 Purchasing Agent				
X	5 Designer of Apparatus or Machinery A7,25	X	12 Inspector A 7,14,25		22 Rate Setter				
			13 Laboratory Chief		23 Research Engineer		32		
X	5a Designer of Plant 7,10,26		13a Laboratory Assistant	X	24 Sales Engineer A 7,25				
	5b Economist	X	14 Manufacturer 7,14	X	25 Sales Manager A 7,25				
X	6 Draftsman A 7,14,25		15 Master Mechanic		26 Specification Engineer				
	7 Editor	X	16 Office Executive A7,14,25	X	27 Superintendent A 7,10,14 20,25		33		

RECORD OF EXPERIENCE.

Please give below an account of your engineering and technical experience, bringing out in particular any line in which you are especially proficient.

Give approximate dates of your experience in each case—*this is most important.*

Have been engaged in engineering, both manufacturing, operating and as a dealer.

1899-1895	Assistant Engineer P. & M. Department G.E.Company in the design construction, installation and operation of every variety of electric power apparatus applied to any and every industry.
1895-6	District Engineer for the seven central states for the G.E.Co.
1896-9	Consulting engineer Anaconda Copper Mining Co. & Silver Lake Mines in reconstruction, operating and installation of new apparatus, hydraulic, mine and power.
1900-2	Consulting Engineer New York Edison Company in all manner of power distribution, high tension lines, aerial and subway meters, etc.
1902-3	Vice President & Manager Nerst Lamp Company, Pittsburgh.
1903-6	District Engineer General Electric Co., N.Y. all variety of electrical engineering.
1906-date	Secretary A.S.M.E.

Continue on a separate sheet if necessary.

INDEXING SCHEDULE

EXPERIENCE IN DETAIL

Check each subdivision in which you have had experience, adding subdivisions and sub-subdivisions as needed.
Your entries in the following schedule are for indexing purposes.

C AGRICULTURAL MACHINERY AND IMPLEMENTS

(Including Farm Tractors and the Application of Electricity)

1

2

D AVIATION

1 Aeroplanes
2 Hydro-aeroplanes
3 Balloons and Dirigibles (Including Production of Hydrogen)
4 Engines
5 Fuselages and Planes
6 Parts and Instruments

7

E COMMUNICATION

1 Cables
2 Signal Systems
3 Telegraph
4 Telephone
5 Radio
6 Light Rays

7

F ELECTRICAL APPARATUS

See also *I*-7, *M*-5, *N*-4, *R*-4, *S*-1, *U* & *Z*

1 Generators
X 2 Motors and Converters
3 Transformers
4 Lamps (see *Ha*)
5 Batteries
6 Controlling Devices
7 Magnets and Solenoids
X 8 Switchboards
9 Heaters
10 Rectifiers

11 **Mine equipment**

Fa ELECTRICAL TRANSMISSION AND DISTRIBUTION

X 1 Transmission Systems
X *a* Overhead
X *b* Underground
X 2 Distributing Systems
X *a* Overhead
X *b* Underground
3 Circuit Protection
4 Wiring of Buildings and Ships
5 Wires and Cables

G FUELS AND COMBUSTION

(See also *Q*, Oil and Gas Supply)

X 1 Coal
2 Coke
3 Low-grade Fuels
4 Blast-furnace and Coke-oven Gas
5 Producer Gas
6 Boiler Furnaces
a Stokers

b

7 Industrial Furnaces
8 Oil-burning Equipment
9 Powdered-fuel Equipment

10

H HEATING AND VENTILATING

1 Hot-air
2 Steam and Hot-water
3 Vacuum Systems
4 Ventilating Systems
5 Air-conditioning
6 Central Plants

7

Ha LIGHTING

(Electricity, Gas, Oil)

1 Residence
X 2 Industrial
X 3 Street
4 Head-lighting
5 Flood-lighting
6 Picture Projection
7 Shades, Reflectors, Fixtures
8 Lamps (See *I*5, *Z*7)

I MACHINERY AND TOOLS

1 Machine Parts
a Ball and Roller Bearings
b Gears

c

2 Machine Tools
(Specify what tools)

a

b

c

d Grinding Machines
e Polishing Machinery
3 Small Tools
4 Gages, Jigs and Fixtures
5 Metal-working Machinery
a Bending and Straightening Machines
b Shearing Machines
c Power Presses
d Wire-drawing Machines

e

I MACHINERY AND TOOLS (*Continued*)

6 Forge Shop Equipment
(See also *N*)
a Steam and Air Hammers
b Bulldozers

c

7 Welding Equipment
a Electric
b Oxy-acetylene

c

J ENGINEERING MACHINERY

1 Air Machinery
a Compressors
b Pneumatic Tools
c Fans and Blowers
d Turbo-blowers

e

2 Pumps
X *a* Centrifugal
b Direct-acting
X *c* Hydraulic-pressure
d Pumping Engines

e

3 Refrigerating
a Ice Making
b Cold Storage

c

4 Hoisting and Conveying
X *a* Conveyors
b Cableways
X *c* Cranes and Hoists
X *d* Elevators and Escalators
e Pneumatic Tube Systems

f

5 Mining
a Boring
b Draining
c Dredging
d Excavating
e Hydraulic
f Quarrying
g Tunnelling

h

6 Chemical Plant Equipment
a Evaporators
b Drying Apparatus

c

7 Fire Extinguishing Machines
a Sprinklers
b Engines
c Chemical

d

K INDUSTRIAL MACHINERY

1 Cement
2 Dairying
3 Flour-milling
4 Mining and Ore-dressing
5 Paper and Pulp
6 Logging
7 Saw-mill
8 Shoe
9 Sugar
10 Textile
11 Wood-working

12

13

14 Specialty Machines
a Adding
b Envelops
c Sewing
d Typewriters
e Weighing

f

L MATERIALS

1 Iron and Steel
a Cast Iron
b Malleable Iron
c Wrought Iron

d

e Alloys
f Cast Steel
g High-speed Steel
h Steel Castings
j Structural Steel
k Manfactured Product (See *L*-5)
l Cold-drawn Steel

m

2 Non-ferrous Metals
a Alloys
b Aluminum and Magnesium
c Antimony, Bismuth, and Cadmium
d Brass and Bronze
e Chromium and Manganese
f Copper
g Gold and Silver
h Iron and Steel
i Lead
j Mercury
k Nickel and Cobalt
l Platinum Metals
m Radium and Uranium
n Silicon and Titanium
o Sodium
p Tin
q Tungsten
r Zinc

s

X 6 Mine

B10 A10 Secy. (A.S.M.E.) (12 yrs.)
B2 A7 Consult Engr. (G.E.) & (Co. of Edison)
B5a A26 Dept Mgr
B3 A10 Construction Engr

INDEXING SCHEDULE
(Continued)

L MATERIALS (*Continued*)

3 Non-Metals
- *a* Abrasives
- *b* Asbestos
- *c* Belting Materials
- *d* Insulating Materials
- *e* Lubricating Oils
- *f* Carbon Products
- *g* Concrete, Reinforced Concrete
- *h* Timber
- *i*

4 Chemicals
- *a* Acids, Alkalies and Salts
- *b* Alcohol and Acetone
- *c* Ammonia
- *d* Analytical Chemistry
- *e* Barium Compounds
- *f* ~~Cement, Lime (see L-3)~~
- *g* Coke and Tar
- *h* Dyes and Textiles
- *i* Explosives (high)
- *j* Explosives (black powder)
- *k* Fats and Soaps
- *l* Fertilizers
- *m* Foods
- *n* Glass and Ceramics
- *o* Inorganic Chemicals
- *p* Nitrogen (synthetic)
- *q* Organic Chemicals (other than *b*)
- *r* Paints and Varnish
- *s* Petroleum and Asphalt
- *t* Pharmaceuticals
- *u* Pyrotechnics
- *v* Rubber and Allied Substances
- *w* Sugar, Starch, and Gums
- *x* Toluol, Benzol
- *y* Wood Products

5 Supplies
- *a* Bolts and Nuts
- *b* Brass Products
- *c* Pipe and Fittings
- *d* Tubes
- *e* Wire
- *f*

M MEASURING AND TESTING APPARATUS

1 Calipers and Gages
2 Pressure Gages
3 Flow Meters
4 Dynamometers
5 Electrical Instruments
6 Pyrometers
7 Recording Instruments
8 Testing Machines
9 Weighing Apparatus
10 Photometers

11

N METALLURGICAL EQUIPMENT

(For Heat-treatment, etc., see **Z**
1 Foundry Equipment
(Specify what equipment)
- *a*

N METALLURGICAL EQUIPMENT (*Continued*)

2 Iron and Steel Works Equipment
- *a* Blowing Engines
- *b* Coke oven (including by-product) Equipment
- *c* Rolling Mill Equipment
- *d*

3 Forging Equipment
- *a* Forging Presses
- *b*

4 Electric Furnace

O MUNICIPAL AND COMMUNITY

1 Pavements and Roads
2 Sewerage and Water Supply
3 Irrigation

P MUNITIONS

1 Artillery
2 Machine Guns
3 Rifles
4 Side Arms
5 Explosives
6 Shells
7 Fuses
8 Cartridges
9 Aircraft Bombs
10 Torpedoes
11 Mines
12 Grenades

13

Q GAS MANUFACTURE AND SUPPLY

1 Coal Gas Plant
2 Water Gas Plant
3 Pintsch Gas Plant
4 Distribution System
5 Lamps (see **Ha**)

6

Qa OIL AND NATURAL GAS SUPPLY

1

2 Natural Gas Wells Equipment
3 Natural Gas Distribution
4 Oil Well Equipment
5 Oil Distribution
6 Oil Refining
7 Lamps (see **Ha**)

8

R POWER GENERATION

X 1 Steam Power and Plant Equipment
(For Furnaces see **G**)
- X *a* Boilers
- *b* Superheaters
- *c* Economizers
- *d* Feedwater Heaters
- X *e* Engines

R POWER GENERATION (*Continued*)

- X *f* Turbines
- *g* Condensers
- *h* Piping, Valves and Fittings
- *j* Steam Specialties
- *k*

2 Gas Power and Plant Equipment
- *a* Gas Producers
- *b* Blast Furnace and Coke-oven Gas Equipment
- *c* Gas Engines
- *d* Oil Engines
- *e* Gasoline Engines
- *f* High-speed Gasoline Engines
- *g*

X 3 Hydraulic Power and Plant
X Equipment
- X *a* Turbines
- *b*

4 Electric Light and Power
- X *a* Central Stations
- X *b* Isolated Plants
- *c* Wiring of buildings
- X *d* Substations

S POWER TRANSMISSION

X 1 Electric
- X *a* Motor Drive
- X *b* Motor Control
- *c*

2 Belt Transmission
- *a* Shafting
- *b* Pulleys
- *c*

3 Rope Transmission
4 Chain Transmission
5 Gearing
- *a* Reduction Gearing
- *b*

T SHIPS

1 Merchant Ships and Transports (Specify wood or steel)
2 Warships
3 Patrol Boats
4 Small Boats, Yachts
5 Submarines
6 Trawlers and Mine Sweepers

7

U STRUCTURES AND BUILDINGS

1 Foundations
2 Factories
3 Tanks
X 4 Power Houses
5 Docks, Dikes, Levees
6 Bridges
7 Dams

8

U TRANSPORTATION

1 Animal
2 Automobiles
(Specify whether gasoline, electric or steam)
- *a* Pleasure Cars
- *b* Road Tractors
- X *c* Trucks
- *d* Motor Cycles
- X *e* Motors
- *f* Accessories and Parts
- *g*

3 Railway, Electric
- *a* Maintenance of Way
- *b* Valuation
- X *c* Trolley Cars
- *d* Gasoline-electric Cars
- *e* Car Barns and Sheds
- *f* Electrolysis Prevention
- *g*

4 Railroad, (Steam or Electric)
(Specify whether steam or electric)
- *a* Maintenance of Way
- *b* Cars
- X *c* Locomotives (Electric)
- *d* Brakes
- X *e* Locomotive Terminals and Equipment (Electric)
- *f* Signals
- *g*

X 5 Railway, Industrial
6 Marine
- *a* Boilers
- *b* Oil-burning Equipment
- *c* Steam Engines
- *d* Oil and Gasoline Engines
- *e* Turbines
- X *f* Electric Drive
- *g* Propellers
- *h* Steering Gear
- *j*

X 7 Canal
- X *a* Electric
- *b*

W

X

Y

Z MANUFACTURING AND SPECIAL PROCESSES

1 Machine Shop Processes
2 Cement Manufacture
3 Paper Manufacture
4 Textile Manufacture
5 Electrochemical
6 Electrometallurgical
7 Special Processes
(Please add any processes with which you have had experience).
- *a* Dynamic Balancing
- *b* Die Casting
- *c* Heat Treatment
- *d* Metal Coating
- *e* Wood Preservation
- *f* Lamp Manufacture
- *g*