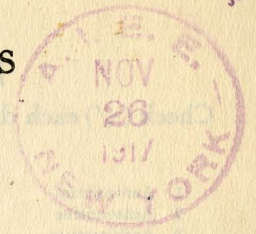


2995

S.H.
JUN 27 '18

THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

33 West 39th Street, 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 Torchio Philip Date November 13, 1917
(Surname) (First name) (Second name)

Mail address 124 East 15th
(Number) (Street)

Residence New York New York
(City) (State)

Telegraph address Bronxville Telephone No. 275 Married? Yes Dependents? Yes
Business --- Stuyvesant 5600 (If widower answer no.)

Occupation or position Chief Electrical Engineer

Name of employer The New York Edison Company

Location 124 East 15th Street - New York

Kind of business Electric light and power supply

Birth: Year 1868 Country Italy When naturalized? 1912

Citizen of what country? United States

Physical condition Good

Education { Common School Yes University Pavia
 High School Yes College and Milan Poly-technic College Course Mech. & Year graduated 1893
 Degree Elec. Engr.

Member of what engineering and technical societies? AIEE - Illg. Eng. - AEI - FI - NELA - etc.

What foreign languages do you speak? Italian - French Fluently? Yes Read Yes

In what countries have you resided and what years? Italy - England 1892 - United States

In what countries traveled extensively? Italy - Swisse - France - Germany - England - U.S.

What military or naval training? Home Defense Reserve

Are you in active service or reserve? Active Rank? Private

Member of what war committees? Several, but all working aimlessly

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 <small>(This table is for indexing purposes)</small>	Symbols of Specialties
A7 - 14 - 25 - 26 - 31; B2 - 3 - 4a - 5 - 5a - 5b - 6 - 10 - 16 - 17 -	21 - 23 - 24 -
26 - 31; F1 - 2 - 3 - 4 - 5 - 6 - 7 - 8; Fa1a - 1b - 2a - 2b - 3 - 4 - 5; G1 - 2 - 6 -	
H5; Ha3 - 8; I5d - 7a; J3a - 4d; L2f - 2i - 2p - 2r - 5e; N4; O1 - 2; P12; R1a -	
1b - 1c - 1d - 1e - 1f - 1g - 1h - 3a - 4a - 4b; S1a - 1b; V2 electric - 3e	

Other Specialties

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	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 E1-6)
4 Ballistics	13 Mathematics	22 Naval Architecture	
5 Chemical	✓ 14 Mechanical	23 Navigation	
6 Civil	15 Metallurgy	24 Patent Law	✓ 31 Welfare Work
✓ 7 Electrical	16 Metallography	✓ 25 Power	
8 Gas	17 Machine Shop Practice	✓ 26 Public Utility Service	32
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 A9."

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

Draftsman - 1893 - 1895 - Sprague Electric Elevator Company
 Engineer of Economics - 1895 - 1901 - The New York Edison Company
 Engineer of Distribution - 1901 - 1905 - " " " " "
 Chief Electrical Engineer - 1905 up - " " " " "
 and Consulting Engineer - 1905 up - Consolidated Gas Co.'s allied interests

Design of Power Plants - Steam - Hydraulic
 " " Substations
 " " Transmission Lines - Underground and Overhead
 " " Cables and Insulation - Splicing of Cables
 " " Relays - Reactors - Storage Batteries of Large Capacities
 Actuarial work - Industrial Insurance "Life, Sickness and Accident" -
 Investigating inventions in industries and new plans in expanding organizations

B2 A26 Consult Eng. (Chief Eng.) (N.Y. Edison Co.) (05-date)

B5a A7 Design Pwr Plants + Lines
 (Chas. G. Lewis)

Fa, O1, O2, P12, R1, R3, R4, S1

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 ✓ 2 Motors and Converters ✓ 3 Transformers ✓ 4 Lamps (see Ha) ✓ 5 Batteries ✓ 6 Controlling Devices ✓ 7 Magnets and Solenoids ✓ 8 Switchboards 9 Heaters 10 Rectifiers 11 Fa ELECTRICAL TRANSMISSION AND DISTRIBUTION ✓ 1 Transmission Systems ✓ a Overhead ✓ b Underground ✓ 2 Distributing Systems ✓ a Overhead ✓ b Underground ✓ 3 Circuit Protection ✓ 4 Wiring of Buildings and Ships ✓ 5 Wires and Cables 6	G FUELS AND COMBUSTION (See also Q, Oil and Gas Supply) ✓ 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 2 Industrial ✓ 3 Street 4 Head-lighting 5 Flood-lighting 6 Picture Projection 7 Shades, Reflectors, Fixtures ✓ 8 Lamps (See I5, Z7) 11 I MACHINERY AND TOOLS 1 Machine Parts a Ball and Roller Bearings b Gears c 2 Machine Tools (Specify what tools) c 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 a Centrifugal b Direct-acting c Hydraulic-pressure d Pumping Engines e ✓ 3 Refrigerating a Ice Making b Cold Storage c ✓ 4 Hoisting and Conveying a Conveyors b Cableways c Cranes and Hoists ✓ 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 Manufactured 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
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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
 - h Concrete
 - i Timber
- 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

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

R POWER GENERATION (Continued)

- 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

3 Hydraulic Power and Plant Equipment

- a Turbines
- b
- 4 Electric Light and Power
 - a Central Stations
 - b Isolated Plants
 - c
 - d Substations

S POWER TRANSMISSION

- 1 Electric
 - a Motor Drive
 - 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
- 4 Power Houses
- 5 Docks, Dikes, Levees
- 6 Bridges
- 7 Dams
- 8

U TRANSPORTATION

- 1 Animal
- 2 Automobiles *electric* (Specify whether gasoline, electric or steam)
 - a Pleasure Cars
 - b Road Tractors
 - c Trucks
 - d Motor Cycles
 - e Motors
 - f Accessories and Parts
 - g
- 3 Railway, Electric
 - a Maintenance of Way
 - b Valuation
 - 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
 - c Locomotives
 - d Brakes
 - e Locomotive Terminals and Equipment
 - f Signals
 - g
- 5 Railway, Industrial
- 6 Marine
 - a Boilers
 - b Oil-burning Equipment
 - c Steam Engines
 - d Oil and Gasoline Engines
 - e Turbines
 - f Electric Drive
 - g Propellers
 - h Steering Gear
 - j
- 7 Canal
 - 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

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PHILIP TORCHIO

Philip Torchio, Vice President of the New York Edison Company, was born in Italy in 1868. During the years 1893 to 1895 he served as a draftsman with the Sprague Electric Elevator Company. In 1895 he affiliated with the New York Edison Company as Engineer of Economics, and in 1901 became Engineer of Distribution. In 1905 he was made Chief Electrical Engineer, which office he held until 1925 when he became Vice President in charge of electrical engineering. Mr. Torchio entered the Institute in 1895 and was transferred to Fellow in 1912. He has served on many Institute committees as follows: Board of Examiners, Economics of Electric Service, Electrical Machinery, Meetings and Papers, Power Stations, Protective Devices, and Standards. He is now chairman of the Power Transmission and Distribution Committee.

1895

Officer N.Y. Sec?

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