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Interior view of Southern Power Company's hydro-electric plant

Horizontal low-pressure steam turbine and generator

Switchboard room, Quarry Street Station, Commonwealth Edison Co., Chicago

Steam turbine generating plant, Fisk Street Station, Commonwealth Edison Co., Chicago

1,500-kilowatt rotary converter

Generator connected to large gas engine, San Francisco

Conveying a 10,000-kilowatt, 100,000-volt transformer without case across the Feather River, California

Method of mounting distribution transformers on poles

400-ampere, 116 to 120 volt meter unescaped to show mechanism

High-voltage transformer, Southern Power Company

Modern type of distribution transformer

Tungsten lighting, Riverside Drive, New York City

Inclosed arc-light lamp—poles, Fifth avenue, New York City

Arc lighting on Seventh avenue, New York City

Types of modern arc-light poles

Type of ordinary tungsten lamp

1,000-candlepower tungsten lamp compared with ordinary 10-candlepower carbon lamp

Inclosed arc lamp with ornamental casing for indoor service

Type of flaming-arc lamp

Room in New York Post-Office lighted with vacuum tubes

Typical electric chafing dish

Electric oil-tempering bath

Electric coffee percolator

Electric fan

Electric toaster with warming shelf

Section of switchboard, New York Edison System
LETTER OF TRANSMITTAL.

DEPARTMENT OF COMMERCE AND LABOR,
Bureau of the Census,
Washington, D. C., June 20, 1910.

Sir:

The act of Congress of June 7, 1906, amendatory of section 7 of the act approved March 6, 1902, provides that statistics concerning central electric light and power stations shall be collected by the Bureau of the Census at quinquennial periods.

I have the honor to submit herewith the first report prepared in conformity with the requirements of this law. The report presents statistics concerning the physical equipment, service, and financial operations of the central electric light and power stations. This is the second census of the central electric stations that has been taken since the Bureau of the Census was made a permanent office. The first census covered the year ending December 31, 1902, and was taken in accordance with the provisions of section 7 of the act of Congress of March 6, 1902.

In order to preserve the comparability of the data, the same form of schedule was used to collect statistics at both censuses, and, as nearly as possible, the same form of presenting the data has been followed in both reports. The statistics were collected and the report prepared under the supervision of Mr. William M. Steuart, chief statistician for manufactures. Mr. T. Commerford Martin, of New York City, was the consulting expert special agent of the office and prepared the portion of the report dealing with the technical features of the industry. Acknowledgment should also be made of the services of Mr. Frank L. Sanford, who prepared the analytical tables and verified the text.

Very respectfully,

[Signature]

Hon. Charles Nagel,
Secretary of Commerce and Labor.

Director of the Census.