

The telegraph apparatus consists of about one hundred and ten miles of wire, divided into nineteen circuits, of which nine are signal circuits, or circuits running to the signal boxes. Alarm gongs are located in the different Engine, Hook and Ladder, and Hose houses, each connected with the Central Office by the fire-alarm circuits and eight alarm bells for striking the alarm box, located as follows: One on the Hall of the Exempt Fire Co., one on the Engine House on Sixth street, one on the Engine House on Stockton street, one on the Engine House on Second street, one on the Engine House on California street, one on the Engine House on Sixteenth street, one on the Engine House on Bryant street, and one on the Engine House on Pacific street. The bells and gongs are each struck at the same time by electrical machinery. The Police and Health Apparatus consists of twelve stations, each communicating with the City Hall and the Central Office, Brenham Place, where a constant watchfulness is exercised by the attending operator.

Fire Department.

The Paid Fire Department of the City and County of San Francisco was organized December 3, 1866.

The present force consists of two hundred and ninety-four officers and men (including the Board of Engineers, the Clerk and Messenger of the Board of Fire Commissioners, the Veterinary Surgeon, and employees at the Corporation Yard), twelve steamers, to each of which is attached a hose reel, eight hose carriages, and four hook and ladder trucks; also four steamers, two hose reels, and two hook and ladder trucks in reserve at the Corporation Yard, the condition of which is as fully kept up to the standard required as that of the apparatus in active service. Each steamer and hook and ladder truck is drawn by two horses, and the hose carriages by one each. Number of horses in the Department, sixty-three. Amount of hose in use twenty-one thousand feet, all of which is carbolized. Number of hydrants, one thousand three hundred, available for the purpose of extinguishing fires; number of cisterns, fifty-five, in good order; total capacity, two million eleven thousand eight hundred and fifty-six gallons.

Expenditures for the Fiscal Year ending June 30, 1879.—Salaries, \$188,080 00; apparatus, materials, etc., \$23,613 38; running expenses, \$65,096 98; office rent, stationery, etc., \$462 60; cisterns and hydrants, \$8,618 00. Total, \$285,870 96.

BOARD OF FIRE COMMISSIONERS.—Gordon E. Sloss, (President); Gus Reis, Edward Flaherty, Frank G. Edwards, and E. B. Cotter, Commissioners; E. B. Vreeland, Clerk; George W. L. Post, Messenger.

Officers.—David Scannell, Chief Engineer; Matthew Brady, Assistant Chief Engineer; A. C. Imbrie, James Riley, John E. Ross, and George W. Kennard, Assistant Engineers; Samuel Rainey, Superintendent of Steamers; James Stoddard, Assistant Superintendent of Steamers; Peter Burns, Veterinary Surgeon; William Eyre, Corporation Yard Clerk; Charles Lyons, Corporation Yard Drayman; John McCarthy and Philip G. O'Neal, Hydrantmen; John Willis, Carpenter; John Reilly, Substitute Engineer and Machinist; Cornelius Guinee, Corporation Yard Watchman.

STEAMER No. 1.—Located 419 Pacific street. Company organized December 3, 1866. Engine, Amoskeag, second class; size of cylinder, six and a half inches; length of stroke, ten inches; capacity, four hundred gallons per minute; weight, six thousand five hundred pounds. Foreman, Charles Kimball.

STEAMER No. 2.—Located 412 Bush street. Company organized December 3, 1866. Engine, Amoskeag, second class; cylinders, six and a half inches; length of stroke, ten inches; capacity, four hundred gallons per minute; weight, six thousand pounds. Foreman, Thomas Sands.

STEAMER No. 3.—Located on the south side of California street, between Leavenworth and Hyde. Company organized December 3, 1866. Engine, Amos-

keag, third class; cylinders, seven and a half inches; length of stroke, ten inches; capacity, three hundred gallons per minute; weight, five thousand five hundred pounds. Foreman, M. J. Dolan.

STEAMER No. 4.—Located 144 Second street. Company organized December 3, 1866. Engine, Amoskeag, second class; cylinder, six and a half inches; length of stroke, ten inches; capacity, four hundred gallons per minute; weight, six thousand five hundred pounds. Foreman, Edward Keating.

STEAMER No. 5.—Located 1219 Stockton street. Company organized December 3, 1866. Engine, Amoskeag, second class; cylinders, six and a half inches; length of stroke, ten inches; capacity, four hundred gallons per minute; weight, six thousand five hundred pounds. Foreman, John J. Mahoney.

STEAMER No. 6.—Located 311 Sixth street. Company organized December 3, 1866. Engine, Amoskeag, second class; cylinders, six and a half inches; length of stroke, ten inches; capacity, four hundred gallons per minute; weight, six thousand pounds. Foreman, John Dougherty.

STEAMER No. 7.—Located on the north side of Sixteenth street, between Valencia and Guerrero. Company organized April 15, 1868. Engine, Amoskeag, second class; cylinder, eight and a half inches; length of stroke, twelve inches; capacity, four hundred gallons per minute; weight, six thousand pounds. Foreman, John J. Skehan.

STEAMER No. 8.—Located Pacific avenue, between Polk and Van Ness avenue. Company organized June 1, 1869. Engine, Kimball, third class; cylinder, seven and a half inches; length of stroke, ten inches; capacity, three hundred gallons per minute; weight, four thousand pounds. Foreman, James Grady.

STEAMER No. 9.—Located 320 Main street. Company organized October 30, 1873. Engine, Amoskeag, second class; cylinder, six and a half inches; length of stroke, ten inches; capacity, four hundred gallons per minute; weight, six thousand pounds. Foreman, Edward Scott.

STEAMER No. 10.—Located on Bryant street, between Third and Fourth. Company organized February, 1873. Engine, Amoskeag, second class; cylinder, six and a half inches, length of stroke, ten inches; capacity, four hundred gallons per minute; weight, six thousand pounds. Foreman, Thomas O'Reilly.

STEAMER No. 11.—Located on Fourteenth avenue, between Railroad avenue and N street, South San Francisco. Company organized June, 1874. Engine, Amoskeag, second class; cylinder, eight and a half inches; length of stroke, twelve inches; capacity, four hundred gallons per minute; weight, six thousand pounds. Foreman, C. J. Gillen.

STEAMER No. 12.—Located southwest corner of Drumm and Commercial streets. Company organized September, 1879. Engine, Amoskeag, first class; cylinders, eight inches; length of stroke, twelve inches; capacity, six hundred gallons per minute; weight, nine thousand pounds. Foreman, George Maxwell.

Hose No. 1.—Located 112 Jackson street. Company organized December 3, 1866. Foreman, John Hanley.

Hose No. 2.—Located on Post street, near Fillmore. Company organized December 3, 1866. Foreman, George R. Holmes.

Hose No. 3.—Located on Twenty-second street, near Folsom. Company organized December 3, 1866. Foreman, Isaac V. Denniston.

Hose No. 4.—Located 1802 Stockton street. Company organized December 3, 1866. Foreman, James Derham.

Hose No. 5.—Located on the south side of Market street, between Tenth and Eleventh. Company organized December 3, 1866. Foreman, James Riley.

Hose No. 6.—Located on McAllister street, between Webster and Buchanan. Company organized April, 1876. Foreman, P. H. Jones.

Hose No. 7.—Located on Tennessee street, between Sierra and Shasta. Company organized February 1, 1879. Foreman, Isaak T. Mordecai.