

AMERICAN SOCIETY of HEATING AND VENTILATING ENGINEERS GUIDE 1923

HEATING

PARTIES RESPONSIBLE FOR HEATING PLANT PERFORMANCE

IT is well to first determine the responsibilities of the three parties upon whom the successful performance of the heating plant depends before setting forth the various factors that must be considered in the proper design of a steam heating plant. The parties primarily responsible for the performance of the heating plant are the owner, the heating contractor, and the boiler manufacturer. The owner is held responsible for the acts of his agents, such as the consulting engineer and the architect, also the builder.

The owner is responsible: *first*, for the proper construction of the building, according to the plans and specifications furnished to the heating contractor; *second*, for the proper construction of a smoke tight chimney (See Model Ordinance for Construction of Chimneys, (A. S. H. & V. E. JOURNAL, Dec., 1921, also GUIDE, 1922 p. 35), having at least the minimum dimensions and height to produce the required quantity of draft as recommended by the boiler manufacturer; *third*, for the quality and kind of fuel furnished; *fourth*, for the proper design of the heating plant when designed by a consulting engineer; *fifth*, for the proper operation of the plant according to the instructions of the heating contractor and the boiler manufacturer (See paper, Heating the Home Economically, A. S. H. & V. E. JOURNAL, January, 1922, p. 21).

The heating contractor is responsible: *first*, for the proper construction of the heating plant in a good workmanlike manner according to the plans and specifications; *second*, for the proper design of the heating plant when designed under his own directions.

The boiler manufacturer is responsible: *first*, for the proper rating of the boiler according to the A. S. H. & V. E. Code for Testing Low Pressure Heating Boilers (See TRANSACTIONS, Vol. 25, p. 143 also GUIDE, 1922, p. 27); *second*, for the proper performance of the boiler when operated under standard code conditions as to the conditions of the boiler, quantity of draft, kind and quality of fuel, methods of firing and operation, and proper functioning of piping system. (See Boiler Rated Capacity, p. 43 and 48).

Material for this section on Heating also the sections on Heat Losses From Buildings, Steam Heating, Pipe Sizes for Steam Heating, and The Boiler, were especially prepared for THE GUIDE 1923 by P. J. Dougherty, Utica, N. Y., who hereby acknowledges the many valuable suggestions made by W. L. Durand, New York, W. H. Driscoll, New York, and C. V. Haynes, Philadelphia, Pa.